

NINTH
ANNUAL REPORT
OF THE
BOARD OF DIRECTORS
OF
CITY TRUSTS.

REPORT FOR THE YEAR 1878.

PHILADELPHIA:
JANUARY, 1879.

PHILADELPHIA:

THE CHANDLER PRINTING HOUSE,

Nos. 306 & 308 Chestnut street.

BOARD OF DIRECTORS
OF
CITY TRUSTS,
1879.

HENRY M. PHILLIPS, *President,*
126 South Sixth street.
Ex-Officio Member of Standing Committees.

ALEXANDER BIDDLE, *Vice-President,*
1307 Walnut street.

GUSTAVUS S. BENSON, 1515 Spruce street.	GEORGE L. HARRISON, 101 S. Front street.
JAMES CAMPBELL, 215 S. Sixth street.	WILLIAM B. MANN, 514 Walnut street
JAMES L. CLAGHORN, 314 Chestnut street, (Com'l Bank.)	JOHN H. MICHENER, 122 Arch street.
CHARLES H. T. COLLIS, S. E. cor. Fifth and Walnut streets	GEORGE H. STUART, 13 Bank and 16 Strawberry street.
WM. H. DRAVTON, 704 Walnut street.	LOUIS WAGNER, 335 Walnut street.

Members of the Board: "Ex-Officio."

WILLIAM S. STOKLEY, *Mayor of Philadelphia,* Fifth and Chestnut streets.
GEORGE A. SMITH, *Pres't Select Council,* No. 235 N. Third street.
JOSEPH L. CAVEN, *Pres't Common Council,* 158 N. Ninth street.

CHARLES T. MILLER, *Secretary.*
No. 19 S. Fifth street

COMMITTEES.

Committee on Finance and Accounts.

JAMES L. CLAGHORN, *Chairman.* JAMES CAMPBELL,
GUSTAVUS S. BENSON, GEORGE L. HARRISON,
WILLIAM H. DRAYTON, THE MAYOR OF THE CITY

Committee on the Property of the Girard Estates within the City of Philadelphia.

JOHN H. MICHENER, *Chairman.* WILLIAM H. DRAYTON,
JAMES CAMPBELL, GUSTAVUS S. BENSON,
PRESIDENT OF COMMON COUNCIL, JAMES L. CLAGHORN.

Committee on the Property of the Girard Estates without the City of Philadelphia.

ALEXANDER BIDDLE, *Chairman.* JAMES CAMPBELL,
LOUIS WAGNER, GEORGE L. HARRISON,
PRESIDENT OF SELECT COUNCIL, GEORGE H. STUART.

Committee on Household of Girard College.

GEORGE H. STUART, *Chairman.* GEORGE L. HARRISON,
CHARLES H. T. COLLIS, LOUIS WAGNER,
PRESIDENT OF SELECT COUNCIL, WILLIAM B. MANN.

Committee on Instruction and Library of Girard College.

JAMES CAMPBELL, *Chairman.* WILLIAM H. DRAYTON,
ALEXANDER BIDDLE, WILLIAM B. MANN,
PRESIDENT OF COMMON COUNCIL, JAMES L. CLAGHORN.

Committee on Admission and Discipline and Discharge of Girard College.

GUSTAVUS S. BENSON, *Chairman.* GEORGE L. HARRISON,
ALEXANDER BIDDLE, CHARLES H. T. COLLIS,
THE MAYOR OF THE CITY, JOHN H. MICHENER.

Committee on the Property and Administration of the Wills Hospital and other Trusts.

CHARLES H. T. COLLIS, *Chairman.* ALEXANDER BIDDLE,
WILLIAM B. MANN, JAMES L. CLAGHORN,
THE MAYOR OF THE CITY, WILLIAM H. DRAYTON.

Executive Committee.

HENRY M. PHILLIPS, *Chairman.* JAMES CAMPBELL,
JAMES L. CLAGHORN, GEORGE H. STUART,
JOHN H. MICHENER, GUSTAVUS S. BENSON,
ALEXANDER BIDDLE, CHARLES H. T. COLLIS.

THE
NINTH ANNUAL REPORT
OF THE
DIRECTORS OF CITY TRUSTS.

To the Legislature of the State of Pennsylvania, the Councils of the City of Philadelphia, and the Board of Appointment, comprising the Judges of the Court of Common Pleas for the City and County of Philadelphia:—

THE BOARD OF CITY TRUSTS respectfully present the Ninth Annual Report of the various Trusts which have been committed to their care and oversight.

GIRARD COLLEGE.

The Directors gratefully acknowledge the Divine care which has so signally protected the Institution during the past year from disease and death. In a population of eleven hun-

dred (children, youths and adults,) only two deaths have occurred, and all other cases of sickness have readily yielded to medical treatment.

The high location of the College premises, abundance of substantial food, and good clothing, great attention to habits of personal cleanliness, and an excellent system of drainage and sewage, all have contributed to this favorable condition, notwithstanding the fact that so many of the children must necessarily have been taken from conditions in life unfavorable to health.

The most memorable event that has occurred during the past year has been the increase of the Institution and the extension of its benefits to a much larger number of orphans than hitherto.

The Directors had been long anxious to increase the beneficiaries to a number more consistent with the means of the Foundation and the area of the ground devoted to the Institution, but were delayed from year to year by the persistent efforts to run various streets through the College premises. When these attempts were happily set at rest by the decisions of the Courts, prompt measures were taken to erect new buildings to accommodate additional children. These buildings, known as "No. 7," are eight in number, with a central house containing a large dining hall and kitchen separating the East from the West group, the entire range of buildings being connected, however, on the first and second floors by corridors. Each building has a distinct section and school of forty boys, making a total of three hundred and twenty children. A teacher and governess for each house control the in-

struction and discipline of that house. Every thing needed for the maintenance and education of the separate sections and schools is furnished in distinct houses, with the exception of the meals, which are taken together in a common dining hall. The food is cooked, and the buildings are heated, by steam brought through tunnels from the boiler house, and this system is found practically to be entirely satisfactory. These houses being completed, were formally opened December 26, 1877, and during the past year the Primary Department, for which they were constructed, has been organized and successfully put in operation. This department will be hereafter the source or fountain from which the more advanced schools will be supplied, and into which all new admissions will be received, the children being promoted from it at the end of each term, according to merit and progress, and according to the number of vacancies in the older schools caused by the binding out of the graduates in accordance with the Will of Mr. Girard.

This department has been placed under the immediate supervision of the Vice-President of the College.

The system upon which the schools of the Institution are now organized is as follows :—

- 1.—Primary Department—8 classes or 4 Parallel Schools.
- 2.—Second Intermediate—2 classes.
- 3.—Secondary Department—8 classes or 4 Parallel schools.
- 4.—First Intermediate—1 class.
- 5.—Principal Department—6 classes.

The relative time allotted for instruction in these Departments is as follows :—

- 1.—Primary Department—Two years.
- 2.—Second Intermediate—Six months.
- 3.—Secondary Department—Two years.
- 4.—First Intermediate—Six months.
- 5.—Principal Department—Three years.

The regular College course, therefore, occupies eight years and the exact instruction given in each Department and School will be seen by the course of studies on the last pages of the Report. ("Appendix F.")

The Schools of the Institution continue to make good progress, and the Teachers have performed their duties with fidelity and success. The frequent visits which have been made by the Directors who constitute the different Committees on the College, have served to excite the emulation of the pupil as well as the interest of the officer.

At the date of the last Report seven hundred and fifty-four boys were in the Institution. During the present year one hundred and ninety-eight have been admitted; sixty bound out to various trades and occupations; nine were discharged upon arriving at eighteen years of age without accepting situations; seven were expelled for vicious conduct; the indentures of three were canceled for satisfactory reasons; and two died. The present number of orphans on the rolls is eight hundred and seventy-one.

Of the boys received during 1878, fifty-six were born within the limits of the old City of Philadelphia; one hundred and thirty-seven in other portions of the State of Pennsylvania; one in the State of Delaware; one in the City of New Orleans; one in the City of New York; and two in the State

of New York. The College has thus far received and educated two thousand three hundred and eighty-two orphans, and has indentured nine hundred and eighty-eight boys to suitable occupations.

Applications for admission to the College continue to be much in excess of the capacity of the Institution. The erection of new buildings enabled the Directors for the first time in many years to exhaust the list and receive all orphans whose names were then on it. But the applications have again largely increased and there are now three hundred and fifteen names on the list of orphans who must await their turn in accordance with the provisions of the Will. The Board earnestly hope that in the near future the full fruition of this noble charity can be reached, and additional buildings be erected, which will so enlarge its capacity for usefulness that nearly all the orphans who are qualified under the Will, can be received and maintained. Under favorable circumstances the revenue of the fund will be ample for that purpose.)

The total expenditure for the maintenance of the College during 1878, was \$289,356 33. As will be seen by the Report of the Superintendent, a large sum of money has been also expended in the various improvements referred to hereafter.

Many important additions and alterations, required for the increased comfort of the pupils and the efficiency of the Institution, have been made during the past year. A long needed want was supplied in the completion of a separate building, intended for the use of the students and visitors on public oc-

casions, such as commencements, lectures, and concerts, and for the religious services of each week-day and Sunday. This edifice, built of white marble to conform to the other buildings, was finished in the early part of the year, and is found to be in every respect well adapted to its purpose. Its acoustic properties are excellent, and it has a capacity ample for the increased number, who, it is hoped at no distant day, will occupy its seats. A powerful organ, constructed by the well-known firm of Jardine & Son, N. Y., has been built in its gallery. The cost of this building, with every thing complete, and including the organ, has been \$65,668 12.

The large room in the main building, hitherto used for the purposes of a chapel, being thus vacated, that apartment has been divided by a permanent partition, and converted into two excellent school rooms, which have been fitted up with the most approved school furniture. This work cost \$904 57.

The stone building, known as No. 5, which did not extend to the line of the other buildings, has been carried out to that line, and the new part thereof is constructed of marble, so as to conform to the architectural unity of the place. This extension has made room for offices of the President, Vice President, and Steward, who are thus placed in close contiguity in a central position, easily accessible from all parts of the Institution. Four new Dormitories, and two new Section Rooms, with all the latest appliances for heating and ventilation, and with new furniture, have been provided in this building, and have added much to the comfort of the children who occupy that house. In the basement are located the swimming tanks for use in winter, the lavatories for the two sections, and the

shop for instruction in handicraft. A commodious fire-proof stairway has been constructed, and the entire building is heated by steam, brought from the boiler house through a tunnel. The cost of this improvement has been \$23,414 31.

All the grounds of the College have been re-graded, with reference to the water discharge; many of the roadways have been reconstructed, and all the walks and pathways have been widened and changed from bricks to flag-stones, with dressed granite curbs.

This work was necessarily an expensive one, but will require no alterations or repairs for many years to come.

The Institution has felt the want for many years of some suitable material wherewith to cover the surface of the play-grounds. Perhaps nothing is more difficult than to construct a play-ground equally serviceable in winter as in summer. A part of each of the play-grounds has been laid with a preparation of asphalt.

The two play-grounds south of the buildings have been surrounded with a neat and substantial open fence of cedar posts and galvanized iron pipes.

The pond in the western portion of the grounds was much enjoyed by the boys for swimming in summer and skating in winter. The constant washing into it of the surrounding soil has lately rendered this pond almost useless. Two artificial reservoirs, with the sides and bottoms coated with plank, are now being constructed in its place, with different depths of water, so as to accommodate different ages of children. These reservoirs are also designed to furnish the annual supply of ice needed by the Institution.

The main building, and the four dwellings which surround it, have been thoroughly painted during the summer.

The pupils of Girard College have, during the past year, been contented, orderly and well behaved, and although a few instances of serious violation of rules occurred, which resulted, under the instructions of the Founder, in the expulsion of the culprits, the general tone and discipline of the Institution has been good. The average marks in scholarship and conduct, necessary to obtain distinction and reward, were this year raised to a higher standard, yet nevertheless, 313 of the pupils earned and received premiums at the distribution which annually takes place in the Assembly Hall on the last day of the year.

The Board have under consideration the question of technical education, and for the purpose of determining the advisability of introducing into the College some instruction in the mechanic arts and useful trades, they are obtaining information on that subject, which is now being considered by a special committee, appointed for the purpose.

The Board bear cheerful testimony to the fidelity and success with which the officers of the Girard College have generally performed their duties during the past year.

GIRARD ESTATE IN THE CITY.

The extreme depression of all business interests, which has so generally prevailed during the past year, has been largely felt in the administration of the Girard Estates. It was found

necessary, as in all other instances of real estate, to reduce the rental, rather than to suffer more serious loss from unoccupied property.

The average reduction thus made in this estate has been twenty-six per cent.

The properties, however, belonging to the estate have been kept in good repair, while many improvements have been made, which enhance its value and add to its revenues. The property south of the Girard Bank and the Stock Exchange has been improved by the construction of two blocks of offices, with every convenience needed by such structures. These buildings have been completed at a cost of \$47,677 21, and are now rented and occupied.

New fronts have been put in the stores Nos. 14, 16 and 18 North Delaware avenue, which cost \$4,074 80, and the dwelling house No 31 South Eleventh street has been altered into a store, at an expense of \$6,192 30. Pier No 2, on the north wharves of the Delaware River, has been reconstructed and extended to the Port Warden's line. The work is completed, and cost \$21,405 56. In order to conform to the Will of Mr. Girard, contemplating the "removal of wooden buildings within the limits of the City of Philadelphia," and to meet the requirements of an ordinance of City Councils, providing for the "erection of iron sheds in lieu of wooden sheds on Delaware avenue," a large iron shed has been constructed on this pier, with the view of testing the relative merits and utility of the two kinds of material, before final action is taken in regard to this great thoroughfare.

Under authority given by the Court of Common Pleas, the

house and lot at the corner of Girard avenue and South College avenue has been purchased for the sum of \$4,500. This property is immediately in front of the entrance gate of Girard College, and it became necessary for the College to control it, as it could have been so used as to cause great injury to the interests and discipline of the Institution. The price paid was the amount it brought at a judicial sale.

Fourteen wooden or frame buildings in the old City have been torn down and removed, under the provisions of Mr. Girard's Will, for which the estate paid to the owners the sum of \$1,550, out of the fund provided for that purpose.

The carefully prepared Statement by the Superintendent, which will be found appended to this Report, (*marked "Appendix A,"*) exhibits all the receipts and disbursements of the estate for the year 1878, and contains, also, an inventory of its assets.

GIRARD ESTATE OUT OF THE CITY.

The report of the resident engineer, Mr. Heber S. Thompson, (*as shown in Appendix B,*) gives full details of the condition of the Estate in Schuylkill and Columbia Counties.

Interesting and instructive maps are connected with this report, showing the limits of each coal and timber lease; the location of mine openings, breakers, and other improvements; the out-crop of the Mammoth Vein; the railroad lines on, or near the estate; and specimen sections of the seams of coal worked.

Some idea of the extent and value of this property can be gained from the statement that the product of its mines has increased from a little over 40,000 tons in 1863, to nearly 1,000,000 tons in 1878.

Notwithstanding the uncertainty and disturbance which has existed for some time past in the mining and sale of coal, the income from this source has not been diminished.

Two thirds of the net receipts from these lands have, with the exception of a small balance, been permanently invested as a portion of the capital of this estate.

The Lehigh Valley R. R. Co. have extended their road from Shenandoah City to Ashland, and have constructed a depot at Girardville. These increased facilities for transit will no doubt prove advantageous to the mines and property of the estate in this neighborhood.

The Board have given their consent to a transfer of the lease of the William Penn Coal Co. to Messrs. Edward and George Brooke, under the same name; and also to a transfer of the lease of J. T. Audenreid, lessee of the Continental Coal Co., to the Lehigh Valley Coal Co.

A lease for the timber on the western one hundred and fifty acres of the "Josiah Haines" tract has been executed to the Bear Ridge Coal Company; and at Brandonville, in the Catawissa Valley, a dam has been built and pipes laid to supply the hotel at that place with water.

During the year six deeds were executed for the surface rights of lots in Girardville, and forty-four leases for five years each were given for lots in other parts of the estate, at a rental in most instances of fifteen dollars per annum.

Some progress has been made in clearing a portion of the lands belonging to the Estate in the Catawissa Valley for farming purposes. The removal of the timber, breaking the soil and fencing the ground must necessarily be a work of time, but, ere long, the estate will possess a body of cultivated land which can be made available for the purposes directed by Mr. Girard's Will.

MINOR TRUSTS.

The Wills Hospital, for the relief of the Indigent Blind and Lame, which is the most important of the Minor Trusts, continues satisfactorily to perform its beneficent work. As will be seen by the report of the surgeons, ("Appendix C,") the number of the afflicted obtaining relief from this Institution continues to increase each year. Its largest service is of course to the out-door poor, who throng its doors each day for advice and treatment. But, unfortunately, its income is not sufficient to support as resident patients all who need constant care, and who have no homes. Through the liberality of generous givers new wards and beds for additional patients have been provided without encroaching on the means of the Hospital. The Directors cannot doubt that when our people, so many of whom are constantly seeking for opportunities to do good, know and realize that this excellent Institution has the capacity, if it had the means, to welcome and give shelter to still more of the afflicted poor, they will

provide by gifts or legacies the funds wherewith to accomplish it.

The eminent oculists, who give their services gratuitously, continue to do their work with fidelity and zeal. No change has taken place during the year in the staff of surgeons. The clinic hours are from 2 to 3 P. M. each day, (Sundays excepted,) at which time all poor persons who need treatment for diseases of the eyes or limbs are invited to apply.

Of the remaining twenty-seven Minor Trusts, most of which are to provide fuel for poor persons, the Guardians of the Poor directly administer nine, the bequests having been made to them. The Directors of City Trusts collect the revenues of these bequests, and pay the bills incurred when properly certified to them by the Guardians.

The "Benjamin Franklin" and "John Scott" Trusts for loaning money to young married artificers, have made during the year loans to all such persons as came properly qualified. The funds have sustained some losses by the failure on the part of some of these people to comply with their engagements.

The "Elias Boudinot Trust" to provide fuel for the "Poor Inhabitants of the City and Liberties," at a price not exceeding the "moderate average price of fuel during the preceding Summer," continues to be utilized. Orders for this fuel have been furnished this Winter to deserving persons at the cost of \$2 50 per ton. The balance of the cost is defrayed from the Trust Fund.

The coal purchased with the funds of the several Trusts

has been distributed under the supervision of each of the fifteen Directors of City Trusts.

The officers to whom the Board have confided the immediate conduct of the business of the Girard Estate and of the other numerous and important charities, continue to merit the approbation of the Directors by the integrity and faithfulness with which they have performed their duties.

IN MEMORIAM.

On the eleventh day of February last Mr. William Welsh, the then President of the Board, fell and suddenly expired at the Wills' Hospital, at which he was making his accustomed official visit. Although the summons came to him apparently in the full vigor of health, no surroundings and no time could have been better fitted for the close of such a life, than to die in the performance of duty in the midst of those afflicted ones for whom his heart had beat so warmly, and for whom he had done so much.

Appropriate resolutions, expressing their sense of the great loss sustained, were placed upon the records of the Board, and at their request President Allen, of Girard College, delivered an eloquent oration on the life and services of their departed colleague, on the twenty-first of May, in the Assembly Hall of the Institution, before a large audience, including the Directors, Pupils and Officers of the College.

For many years Mr. Welsh had served as a Director of Girard College when that Board was elected by the Councils of the City of Philadelphia. When, in 1869, the Legislature of Pennsylvania created a Board of City Trusts to administer and control all the various charitable bequests which had been confided to the City, the Board of Appointment at once recognized Mr. Welsh as one of the fittest among the citizens of Philadelphia to be selected as a member of the new Board, as well on account of his philanthropic character, his high and unblemished reputation and his zeal in every good work, as also of his long experience in this most important of the City's charities. When this Board organized he was unanimously elected its President, and for eight years in succession, and until his death, he was continued in that important position.

A man of very positive nature, Mr. Welsh was especially prominent and industrious in guarding and preserving intact all of the City Trusts from the attempts of interested parties outside which would have impaired their funds or restricted their usefulness. He did not live to see the full results of the enlargement of the Girard College, to which work he had given all the ardor of his nature and all the results of his practical experience. Most sanguine in his temperament, he even looked forward encouragingly to a time when the Institution would assume such proportions that its benefits would not be confined even to the poor of Philadelphia and Pennsylvania, to the Cities of New York and New Orleans, but that orphans from many other places might obtain a share of the blessings of its maintenance and education.

In that excellent Institution, the "Wills' Hospital for the Relief of the Blind and Lame," he became especially interested. The funds of the Hospital not being sufficient to enlarge its capacity and meet the demands which were daily made upon it by the peculiarly afflicted who sought its aid, Mr. Welsh took upon his almost unaided shoulders the task of collecting the money needed for that purpose, and to his zeal and energy is that charity mainly indebted for the two excellent new wards that have so largely made it what it now is.

The people of Philadelphia mourned the death of so useful a citizen, but only his colleagues in this Board can fully realize the loss which the charities of the City then sustained, and the void which his departure has caused in its councils and its work.

Prosperity was redoubled to such a man by his use of it. He lived to see blessings multiplied around him, in the gratitude of the poor he served, in the high reputation he earned for himself in his native City, and in the esteem and good will which were felt for him by his associates in his work.

By order of the Board,

HENRY M. PHILLIPS, *President.*

CHARLES T. MILLER, *Secretary.*

APPENDIX A.

SUPERINTENDENT'S REPORT.

APPENDIX A.

REPORT OF THE SUPERINTENDENT

OF THE

GIRARD ESTATE,

FOR THE YEAR ENDING DECEMBER 31, 1878.

OFFICERS OF THE GIRARD ESTATE.

SUPERINTENDENT,

CHARLES S. SMITH.

ASSISTANT SUPERINTENDENT,

JAMES A. KIRKPATRICK.

SOLICITOR,

F. CARROLL BREWSTER.

Real Estate in the City.

AGENT,

SAMUEL S. CAVIN.

SUPERINTENDENT OF REPAIRS,

MARSHALL HENSZEY.

Real Estate in Schuylkill and Columbia Counties.

ENGINEER,

HEBER S. THOMPSON.

CONSULTING ENGINEER,

JOSEPH S. HARRIS.

ASSISTANT SUPERINTENDENT,

EMIL C. WAGNER

MINE INSPECTOR,

WILLIAM G. GWYTHER.

SOLICITOR,

E. OWEN PARKY.

MESSINGER,

MAURICE COLBERT.

Residing at Office, No. 19 South Fifth street, with whom messages relating to repairs of buildings, or for Members of the Board, or Committees, can be left.]

GIRARD ESTATE.

REAL ESTATE, STOCKS AND LOANS, COMPOSING THE RESIDUARY FUND.

December 31, 1878.

REAL ESTATE.

Banking Houses, Dwellings, Stores, Wharves and Farms, in the City of Philadelphia; assessed valuation for 1878,	\$4,044,050 00
Real estate in Schuylkill and Columbia Counties, Pennsylvania, about 20,000 acres; assessed valuation for 1878,	1,267,915 00

STOCKS AND LOANS.

Par Value.

100 Shares of Stock, Philadelphia Ex- change Co.,	\$10,000 00
408 Shares of Stock, Chesapeake and Delaware Canal Co.,	20,400 00
255 Shares of Stock, Chesapeake and Delaware Canal Co., received as dividend,	12,750 00
<i>Amounts carried forward,</i>	<i>\$43,150 00 \$5,311,965 00</i>

	Par Value.
<i>Amounts brought forward,</i>	\$ 43,150 00
Schuylkill Navigation Co. Loan, 6 per cent., 1870,	1,933 54
Schuylkill Navigation Co. Loan, 1882 and 1897, received for dividend,	4,861 68
Schuylkill Navigation Co. Boat and Car Loan, 7 per cent., received for dividend,	6,600 00
2,200 Shares Schuylkill Navigation Co. Stock—original,	110,000 00
2 Shares Germantown & Perkiomen Turnpike Stock,	200 00
Bond Ridge Turnpike Co., (10,000 of which bearing interest,)	37,550 00
1 Share Stock, Susquehanna & Lehigh Turnpike Co.,	100 00
United States 5-20 6% Loan, 1867,	75,000 00
United States 10-40 5% Loan, 1864,	50,700 00
City of Philadelphia 6 per cent. Loan, taxable,	2,100 00
City of Philadelphia 6 per cent. Loan, free from tax,	375,300 00
Philadelphia & Reading Coal & Iron Co. Bonds, 7 per cent., received for rent,	11,000 00
Scrip Philadelphia & Reading Railroad Co., 6 per cent., received for interest and dividend,	6,830 00
Total value of Residuary Fund,	\$6,037,290 22

STOCKS AND LOANS COMPRISING THE LEGACY RECEIVED FROM
THE ESTATE OF LAWRENCE TODD, DECEASED, OF ILLINOIS, FOR
GIRARD COLLEGE.

December 31, 1878.

United States Loan, 1881,	\$ 7,000 00
City of Philadelphia 6 per cent. Loan, free of tax, . .	29,700 00
U. S. 5-20 6 per cent. Loan, 1867,	1,300 00
Balance Cash in City Treasury,	153 87
	—————
Total value of "Todd Legacy Fund,"	\$38,153 87
	—————

STOCKS AND LOANS APPROPRIATED BY THE EXECUTORS OF STEPHEN
GIRARD'S WILL FOR THE IMPROVEMENT OF THE EASTERN FRONT
OF THE CITY, DELAWARE AVENUE, ETC.

December 31, 1878.

Par Value.

22 Shares Insurance Co. State of Penn- sylvania,	\$ 4,400 00
Union Canal Company 6 per cent. Loan,	\$1,000 00
42 Shares Preferred Stock Union Canal Co.,	2,100 00
	3,100 00
	—————
City of Philadelphia, 5 per cent. Loan, \$ 500 00	
" " 6 " taxable, 44,000 00	
" " 6 " free, 354,300 00	398,800 00
	—————
<i>Amount carried forward,</i>	\$406,300 00

	Par Value.
<i>Amount brought forward,</i>	\$406,300 00
United States 10-40 5 per cent. Loan,	4,900 00
United States 5-20 6 per cent. Loan,	
1867,	15,000 00
Schuylkill Navigation Co. 6 per cent.	
Loan, Mortgage 1870,	\$202,619 17
Schuylkill Navigation Co. 6 per cent.	
Loan, 1882, received for interest, . .	2,350 00 204,969 17

Total value of Delaware Avenue Fund,	\$631,169 17

**CASH RECEIPTS AND EXPENDITURES OF THE GIRARD ESTATE, FROM
JANUARY 1, 1878, TO DECEMBER 31, 1878, BOTH INCLUSIVE.**

RECEIPTS.

Rents from Real Estate in the City,	\$313,695 50
Rent from Collieries,	337,332 20
Rent from Real Estate and sale of surface right of Lots in Schuykill and Columbia Counties,	16,301 03
Interest on City Loans,	47,828 80
Interest on U. S. 10-40 5 per cent. Loan,	785 85
Interest on U. S. 6 per cent. Loan, 1881,	425 77
Interest on U. S. 5-20 Loan, 1867,	1,505 62
Interest on Schuykill Navigation Co. Loan,	12,705 86
Interest on Schuykill Navigation Co. Boat Loan,	462 00

<i>Amount carried forward,</i>	\$731,042 63

RECEIPTS.—*Continued.*

<i>Amount brought forward,</i>	<i>\$731,042 63</i>
Interest on Insurance Co. State of Pennsylvania, .	528 00
City Loan, paid at maturity, (reinvested,) .	800 00
Taxes refunded by Lessees, . . .	9,703 51
Dividend, Philadelphia Exchange Co. Stock, .	300 00
Interest, Philadelphia & Reading R. R. Co. Scrip,	207 90
Sales of waste material at the College; Insurance Premium returned; Discount on Bills; Interest on City Warrants; etc., etc.,	2,690 24
	<hr/>
	<i>\$745,272 28</i>
Balance on hand, January 1, 1878, . . .	222,093 58
Total, cash receipts and balance on hand at the be- ginning of the year,	<hr/> <i>\$967,365 86</i>

EXPENDITURES—ESTATE.

<i>City Taxes, . . .</i>	<i>\$ 74,988 22</i>
Water and Sewer rent,	4,346 30
Salaries,	10,370 00
General repairs to Real Estate,	45,908 06
Permanent improvements,	14,767 51
Law and miscellaneous expenses,	6,999 70
Building Brokers' Offices, . . .	33,223 21
Extending Pier No. 2, and building Shed,	29,082 93
Investments, { Residuary Fund, .	123,056 25
	Delaware Ave. Fund, 30,900 75
	Todd Legacy Fund, . 2,514 63
	<hr/>
<i>Amount carried forward,</i>	<i>\$376,157 56</i>

EXPENDITURES—ESTATE.—*Continued.*

<i>Amount brought forward,</i>	<i>\$376,157 56</i>
Annuities,	300 00
New buildings at College,	102,526 50
Purchase of lot, Building corner of Girard avenue and South College avenue,	4,558 00
Drainage at College,	5,867 17
Grading and paving at College,	47,125 12
Alteration of S. W. Room, Main Building,	904 57
Advances to Steward of College,	1,200 00
Taxes—Lands out the City,	41,267 89
Salaries, Surveys, and law and miscel- laneous expenses out of City	15,577 86
Paving and repairing Delaware avenue,	3,486 74
Salary of Special Police, “	1,155 00
Cleaning Middle Alleys, “	382 75
Incidental expenses—Delaware avenue,	43 38
Removal of Wooden Buildings,	1,550 00
Fuel—City,	564 30
	<i>\$602,666 84</i>

EXPENDITURES—COLLEGE.

Committee on Household.

Subsistence,	\$75,137 02
Clothing, Bed-Clothing and Outfits,	51,241 55

<i>Amount carried forward,</i>	<i>\$126,378 57</i>
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EXPENDITURES—COLLEGE.—*Continued.*

<i>Amount brought forward,</i>	<i>\$126,378 57</i>
Wages,	31,334 37
Furniture, and repairs to same,	10,763 97
Gas,	5,288 04
Repairs and improvements of Buildings,	13,197 77
Improvement of Grounds,	4,820 18
Fuel,	11,402 77
College Cadets,	334 02
Salaries,	16,650 00
Incidentals,	2,929 01
Furniture for new Buildings, including	
Organ,	18,928 39
Clothing for 320 new boys,	4,340 84
Platform scales,	335 00 \$246,702 93

Committee on Instruction.

Salaries, including President and Vice	
President,	\$32,700 00
School Books and Stationery,	3,551 08
Chemical Laboratory,	525 05
School and Chapel Furniture,	1,670 13
School and Philosophical Apparatus,	560 78
Specimens for Department of Natural	
History,	769 70
Library Books and Binding,	396 03
Technical Education,	500 00 40,672 77

<i>Amount carried forward,</i>	<i>\$287,375 70</i>
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Amount brought forward, \$287,375 70

Committee on Finance and Accounts.

Salary of Secretary and Superintendent	
of binding out,	\$1,175 00
Printing, Stationery and Newspapers,	500 00
	1,675 00

Committee on Admission.

Expenses of Admission : Postage Stamps	
and Printing,	\$ 55 63
Rewards and Premiums,	250 00
	305 63
	\$289,356 33

RECAPITULATION.

Receipts and Balance, January 1, 1878,	\$967,365 86
Expenditures for Estate,	\$602,666 84
" " College,	289,356 33
	892,023 17
Balance in the Treasury, Dec. 31, 1878,	\$75,342 69

Credited as follows :—

Residuary Fund,	\$67,502 13
Delaware avenue Fund,	7,686 69
Todd Legacy Fund,	153 87
	\$75,342 69

Balance by City Treasurer's account, .	\$75,434 09
Warrants not taken in, .	91 40
<hr/>	
	\$75,342 69
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CHARLES S. SMITH,

Superintendent Girard Estate.

Office of the Girard Estate, Philadelphia, December 31, 1878.

APPENDIX B.

REPORT OF ENGINEER OF GIRARD ESTATE.

APPENDIX B.

MESSRS. ALEXANDER BIDDLE, LOUIS WAGNER, JAMES L. CLAGHORN, WILLIAM B. MANN, JAMES CAMPBELL, GEORGE A. SMITH:—

Committee on the property of the Girard Estates without the City of Philadelphia.—

GENTLEMEN:—

THE year 1877, memorable for its labor difficulties and scenes of riot and arson, growing out of loss of employment and reduction of wages of labor, and efforts to reduce expenses to meet the increasing loss of trade and revenue, was a year of strife between the large coal companies for trade, and of exceeding low prices for coal. The anthracite coal product of that year was the largest in the history of the trade, being double that of any year during the late war. As a consequence of low prices and the re-establishment of the coal combination at the close of last year, the opening of the present year found consumers and dealers with large stocks of coal on hand, which, owing to the very exceptional mildness of the Winter of 1877-8, became a disturbing element in this year's business until late in the season. It was expected that the production of this year would have been at least equal to that of last, whereas it has been less by three million tons. In view of the fact that a million and a half tons of this loss fell upon the Schuylkill region, in which are the Collieries of the Girard Estate, their large pro-

duction of nearly a million tons, almost equalling the production of last year, speaks well for the excellence of their coal, and the cheapness with which it may be mined. The average number of days worked by all the collieries, for the year, was but one hundred and seventy.

The yield of 1877 and 1878, say a million tons per annum, may be counted upon as the probable annual product from the collieries of the Estate for the next and immediately succeeding years.

The tables which follow show the production of each colliery for the year ending December 31, 1878, and for each year preceding, and the gross income from each lease for the twelve months ending with November 30, 1878.

ANNUAL PRODUCTION OF THE SEVERAL COALFIELDS ON THE GIRARD ESTATE.

PRESENT TENANTS.		1868.	1864.	1865.	1866.	1867.	1868.	1869.	1870.	1871.
1 Philadelphia & Reading Coal & Iron Co., Hammond Coal & Iron Co., Conner Colliery,		84,446 04	66,725 03	90,650 04	76,817 04	62,413 16	67,476 11	29,602 01	118,027 12	
2 Philadelphia & Reading Coal & Iron Co., Girard Colliery,	40,788 15	32,828 16	49,097 04	67,867 04	54,801 12	60,562 05	38,841 11	40,318 09		
3 Philadelphia & Reading Coal & Iron Co., North Ashland Colliery,	13,707 05	36,503 19	41,249 19	47,468 19	48,374 08	45,043 07	41,103 18	44,361 17		
4 Philadelphia Coal Co., No. 2, Shenandoah Colliery,	15,388 00	36,410 10	33,544 12	39,327 13	59,507 10	71,858 07	81,154 10	80,901 09		
5 J. T. Audenreid, Continental Colliery,	1,523 04	24,017 17	38,724 14	43,276 16	37,004 04	31,440 02	37,633 04	73,623 08		
6 Philadelphia Coal Co., No. 1, Colorado Colliery,	2,739 04	22,430 19	55,439 04	95,436 03	117,414 00	113,666 11	125,055 17	121,926 19		
7 Bear Ridge Coal Co., Bear Ridge Colliery, No. 1, Bear Ridge Colliery, No. 2,	10,090 17	44,606 03	43,818 13	19,328 18	4,655 00	536 02	2,340 14			
8 William Penn Coal Co., William Penn Colliery,	9,085 05	59,917 00	65,448 11	28,295 01	27,000 10	35,363 13	53,538 13			
9 Thomas Coal Co., Kehley's Run Colliery,	2,373 17	10,147 08	35,143 06	18,935 00	67,940 09	79,585 19	68,554 01			
10 Philadelphia Coal Co., No. 3, Lehigh Colliery,	1,010 11	10,410 03	5,712 13	4,000 00	3,002 04	17,404 05				
	40,788 15	117,814	17,240,466 03	424,386 19	516,014 06	457,787 02	492,644 04	471,898 19	621,016 18	

ANNUAL PRODUCTION—Continued.

PRESENT TENANTS.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	TOTAL.
	Cwt. Tons.	Cwt. Tons.	Cwt. Tons.	Cwt. Tons.	Cwt. Tons.	Cwt. Tons.	Cwt. Tons.	Cwt. Tons.
1 Philadelphia & Reading Coal & Iron Co., Hammond Colliery, Conner Colliery,	98,813 09	142,066 08	145,619 12	133,935 17	99,652 01	121,146 04 103,639 04	99,215 00 76,671 03	1,649,706 08
2 Philadelphia & Reading Coal & Iron Co., Girard Colliery,	33,076 05	48,797 19	45,669 13	46,290 01	95,043 07	67,573 09	732,797 13	
3 Philadelphia & Reading Coal & Iron Co., North Ashland Colliery,	33,444 10	89,431 13	59,336 16	56,469 04	35,975 10	38,685 09	70,566 17	733,393 05
4 Philadelphia Coal Co., No. 2, Shenandoah Colliery,	60,688 16	149,886 15	137,243 00	62,994 14	112,118 03	89,129 12 101,860 01	88,544 19 118,790 04	1,316,483 19
5 J. T. Audenreid, Continental Colliery,	82,293 07	69,731 14	54,847 09	48,861 12	59,612 18	25,228 13	53,946 16	682,924 12
6 Philadelphia Coal Co., No. 1, Colorado Colliery,	121,162 17	89,117 03	45,604 07	46,003 03	59,871 09	85,955 08	63,229 08	1,160,312 19
7 Bear Ridge Coal Co., Bear Ridge Colliery, No. 1, Bear Ridge Colliery, No. 2,	4,630 11	33,976 08	143,643 08	80,623 08	94,713 02	23,517 15 84,976 00	44,520 05 51,144 16	686,121 00
8 William Penn Coal Co., William Penn Colliery,	85,662 18	140,746 14	146,357 00	106,639 17	118,210 02	164,416 13	120,354 18	1,161,038 15
9 Thomas Coal Co., Kehley's Run Colliery,	102,837 04	98,192 19	87,794 10	65,466 18	89,368 00	68,905 07	100,450 19	895,604 17
10 Philadelphia Coal Co., No. 3, Lehigh Colliery,	53,344 06	65,622 07	97,449 11	67,580 19	75,747 13	117,165 11	33,957 15	553,407 18
	700,750 10	910,818 05	967,602 12	704,545 05	791,558 19	1,118,779 04	989,968 09	9,560,791 05

PRESENT TENANTS.

	Tons.	Cwt.	
Philadelphia and Reading Coal & Iron Co., Hammond & Conner Collieries,	18,339.09		Royalty..... House rent.....
Philadelphia & Reading Coal & Iron Co., Girard Colliery,	72,331.11		Royalty..... House rent.....
Philadelphia & Reading Coal & Iron Co., North Ashland Colliery,	71,389.05		Royalty..... House rent.....
Philadelphia Coal Co., No. 1, Colorado Colliery,	70,851.06		Royalty..... House rent.....
Philadelphia Coal Co., No. 2, Shenandoah & Packer Collieries,	208,870.13		Royalty..... House rent.....
Philadelphia Coal Co., No. 3, Lehigh Colliery,	85,864.01		Royalty..... House rent.....
Philadelphia Coal Co., No. 4, J. T. Audenried, Continental Colliery,	53,948.16		Royalty..... House rent.....
Bear Ridge Coal Company, Bear Ridge Collieries, Nos. 1 and 2,	103,988.04		Royalty..... House rent.....
William Penn Coal Co., William Penn Colliery,	129,449.07		Less fault and tunnel allowance Royalty..... House rent.....
Thomas Coal Co., Kehley's Run Colliery,	104,492.15		Royalty..... House rent..... Less tunnel allowance.....
	1,084,925.07		
			\$37,685.73

DESCRIPTION OF LEASES AND CONDITION OF MINING OPERATIONS, AND OTHER INTERESTS, ON THE ESTATE.

BY your direction I have prepared maps showing all the coal and timber leases, with a separate map of each coal lease on a somewhat larger scale, showing the mine openings, breakers and other improvements, the outcrops of the Mammoth Vein, the railroad lines to market, and specimen sections of the seams of coal worked, and for the purpose of conveying to those persons interested, to whom it is not convenient to visit the estate, an idea of colliery improvements, also drawings of one of the breakers.

LEASE No. 1—HAMMOND AND CONNER COLLIERIES.—*Philadelphia & Reading Coal & Iron Co., Lessee.*—This lease covers all the coal on the John Alexander, James Chapman and Samuel Scott tracts from their northern line southward to the synclinal axis of the basin, which may be described as a line, beginning at a point on the western line of the Alexander tract, three hundred yards north of the Mahanoy Creek, and running eastward, crossing the Shenandoah Creek on the Chapman tract, and continuing eastward on the south side of that stream to the eastern line of the Samuel Scott tract. Its mine openings, slopes and drifts, steam boilers, engines, breakers and surface improvements are on the Chapman tract as shown on the map. The map showing the limits of the lease, shows also the mine or underground workings in color; those of the Mammoth Vein, belonging to Hammond Colliery, being in red; and of the Buck Mountain Vein, belonging to Con-

ner Colliery, in blue. This lease, although the first opened on the estate, and from which came the first car of coal shipped over the Mahanoy and Broad Mountain extension of the Philadelphia & Reading Railroad, in May, 1863, is still, on account of the great depth of basin and excellence of the coal belonging to it, one of the most valuable on the estate.

Its two collieries, Hammond and Conner, together employ in the mines and on the surface five hundred and twenty men and boys.

During the year the sump of Hammond Colliery was enlarged, a gravity road was constructed from the breaker to the slope, a new dirt-plane was built, and a plane erected to raise the refuse from the Conner Breaker to the elevation of the Hammond dump.

The coal product of the year is a large one, exceeded by that of but one other lease on the Estate.

To maintain the present rate of production it will be necessary very shortly to open a new lift in the Mammoth Vein, to open the Buck Mountain Vein east of the fault, against which the workings east of Raven's Run ravine now stand, and to sink a lift on the Buck Mountain Vein below water level. The coal goes to market over the Philadelphia & Reading Railroad. The rate of royalty increases each year one cent per ton on large coal, and half a cent per ton on chestnut coal. For 1879 it will be thirty-five cents on large coal, fifteen cents on chestnut coal, and six cents on pea coal, per ton.

The drawings of the Hammond Colliery breaker exhibit a ground plan, and a front and side elevation, and show the arrangement of the machinery and method of cleaning, assorting and breaking the coal.

Coal, as it comes from the mines, is of all sizes mixed together,

from lumps of one ton in weight down to fine powder, and carries with it harder impurities, such as slate, and rock, which generally occur in seams of coal and cannot conveniently be retained in the mine, also varying in size from minute particles to slabs weighing nearly a ton.

Coal so finely broken as to pass through a screen mesh three-eighths of an inch square is usually called "dirt," and is, at present, largely a waste product. It occurs quite often in the seam *as dirt*, but is more largely produced by the crushing of the coal, during the processes of mining, handling, and transporting.

The purposes for which a breaker is required, are:—

First :—To separate the dirt, slate, "bone" and rock, from the coal.

Second :—To separate small coals of different sizes from each other.

Third :—To break down such pieces as are too large, into suitable sizes.

And it is desirable that these requirements should be fulfilled with as little cost of handling and waste of coal as possible.

At the Hammond Colliery the product of the mine is raised through the slope in small cars, called wagons, which run by gravity, from the head of the slope to the breaker tips or dumps, two in number, A. A., where they are dumped and emptied in the manner shown. The empty wagons are pushed back by hand to the foot of the automatic plane B., by which they are raised to a height sufficient to allow them to return by gravity to the head of the slope.

The mixed coal, slate and dirt taken from the mine, enters the "dump chute" C. C., and reaches first the "main dump chute bars," C¹., which are narrow cast iron bars, so set as to allow a

space of two and a half inches between each two of them. Most of the material small enough to do so, passes through these bars to the dump chute "hopper" D., from which it is fed into the counter screens, E. E., one on each side, with their supplementary screens, E¹. E¹., and E². E². All breaker screens are circular, revolving and slightly inclined away from the end at which the material to be screened is allowed to enter, so that whatever will not pass through the meshes, descends gradually, as the screen revolves, to the other extremity and drops out. They are divided into as many compartments, called "segments," as required; and covered with wire meshes of different sized openings. The smaller mesh, being placed next to the end at which material is fed into the screen, extracts the dirt and allows all larger sizes to pass to the next segment, which extracts the next size, and so on.

In the counter screens, E. E., the first segments extract all smaller than, and including, the chestnut coal. The pea coal and chestnut coal are separated from the dirt in the supplementary screens, E¹. E¹. The other segments separate the large and small stove from the egg coal and larger pieces, which pass out at the ends of the screens, while the stove coals are again cleaned of smaller particles and flat slates in the supplementary screens, E². E².

The dirt from all these screens passes down the counter dirt chute, D²., and is hauled away on the tramway, Z., across the trestling, Y. Y., to the dirt bank, in small cars, which may be tipped on either side, called "dumpers."

The slate and bone separated from this coal in part by the so-called slate picker screens, and in part by hand picking, containing a considerable quantity of good coal mixed with or adhering to it is collected in the slate picker hopper D., from which it is taken along the tramway Z¹., to the boiler fires, and used as fuel.

When it leaves the counter screens the coal descends, by its own weight, along narrow troughs F. F., called "telegraphs," the hand picking being done by men and boys at convenient places along them, and is distributed thus:—the pea and chestnut to the main pea and chestnut coal screens L¹. L¹. L¹, the large and small stove to the main screens L. L., and the egg and broken to the prepared coal rollers K¹.

As the counter screen material is usually wet, and the dirt adheres to it, this second screening is necessary in order to clean it properly. This completes the distribution of that portion of the wagon contents which passes through the two and a half inch openings between the bars C¹. C¹., which is only the smaller sizes from egg down, with such of the larger thin slabs of coal as may turn edge-wise and pass through the bars.

That portion of the wagon contents which passes over the bars C¹. C¹., goes to the steamboat bars C²., on its way down to the dump chute, which are set four and a half inches apart. All that passes through the bars C²., goes to the bars C³., set two and a half inches apart, through which all below, and including, the egg coal passes to the dirt screens E³., where the dirt is separated from it, the coal going to the prepared coal roller K¹., and main screens L. L., while the dirt goes into the hopper D¹., and thence to D⁵.

In this process coal that should have passed through the bars C¹., but has been crowded over them, is separated in the dump chute C. C., by bars C²., and is removed and distributed as described. That portion which passes over the bars C³., goes to the principal steamboat bars C⁴., where it joins the coal from the steamboat roller K. The remainder of the wagon contents goes down the dump chute to the platform bars C⁵., and contains nothing

smaller than lump coal. The platform bars are set nine inches apart, and that portion which passes over them goes to the first platform H., where such of the lumps as are suitable are pushed into the lump coal shute I., and the slate and rock into the rock shutes I¹. I¹., on either side. Here also such of the lumps as have streaks of slate or bone through them are broken by hand and the impurities removed. All that is not suitable for lump coal is thrown down a hole in the platform to the second platform H¹., where it joins that which passes through the bars C³. Here the slate is carefully picked out again by hand and sent down the rock shutes I¹. I¹., to the point I²., where it is loaded into dumpers, and hauled to the dirt or rock bank.

The lump coal passes down the lump coal shute I. I., to the point I²., where it reaches such a level as will allow it to be loaded into the railroad cars for market. After the slate has been removed at H., the coal is thrown down a hole in the platform to the steamboat rollers K. These rollers are cast iron cylinders, with large strong teeth, which revolve towards each other at a speed of from ninety to one hundred and twenty revolutions per minute, and the coal dropping between them is broken into pieces of various sizes. The two rollers are set so near together that none of these pieces shall be larger than steamboat coal. The coal passes from the roller K., to the principal steamboat bars C⁴., set four and a half inches apart, and all that will not go through them is steamboat coal, and goes to the steamboat shute G., whence it is loaded into the railroad cars at G¹., in the same manner as is done with the lump coal at I²., the same track answering for both. That coal which passes through the steamboat bars C⁴., goes to the prepared coal rollers K¹., which are similar to the steamboat rollers except that they have smaller teeth, and are set

near together so that they produce no coal larger than broken. From these rollers the coal enters the main screens L. L., which are similar in construction to the counter screens described above, except that they are larger. The dirt and pea and chestnut coals are taken out in the first three segments, and go together to the pea and chestnut screens L¹. L¹. L¹., which are double screens having a surrounding mesh, outside the screen, called a "jacket." All but the chestnut coal passes through the inner screen, the chestnut dropping out at the end, and the dirt passes through the jacket, while the pea coal drops out at the end of the jacket. The dirt drops into the dirt hopper D²., and is hauled to the dirt banks; the pea goes to the pea coal bins N⁴., and the chestnut to the chestnut coal bins N⁵., without further preparation.

The next segment in each main screen separates the small stove, the next the large stove, the next the egg, and the broken coal falls out at at the end.

All the coal but the broken, passes, each size separately, over short "dusting bars," M¹., set three-eighths of an inch apart, which remove the dirt made by attrition in the screens, and thence over the picking floors, M. M., which are so inclined that the coal slides over them by gravity, each in its own compartment.

These compartments are—

M⁴. M⁴., small stove picking compartment.

M⁴. M⁴., large " " "

M⁴. M⁴., egg " " "

M². M²., broken " " "

Across the picking floors seats, M⁶. M⁶., are placed, which are slightly elevated above them so that the boys who pick the slate sit above the coal and separate the slate from it by hand as it passes them on its way to the bins. The slate picked out by the

boys is collected in the slate shutes, M¹. M²., and carried by hand to the dirt hopper D¹.

The bins, N. N., are divided into compartments for each size of coal, N¹. N¹., being the broken coal bins; N². N²., the egg coal bins; N³. N³., the large stove coal bins; N⁴. N⁴., the small stove coal bins; N⁵. N⁵., the chestnut coal bins; N⁶. N⁶., the pea coal bins; N⁷., the buckwheat coal bin. When it is desired to load this coal into the railroad cars, they are run down under the breaker to the gates, O. O., communicating with each bin, the car loaders using the platform P., for convenience in walking from bin to bin. Below each of the gates, O., is a short set of bars over which the coal passes on its way into the cars, called the "lip screens," which take from each size all particles smaller than it, as well as the dirt caused by attrition in the bins. There are also similar bars at the lump and steamboat loading points, I³. and G¹. All this "loading chippings" and "dirt," as it is called, are brought to the hopper of the elevators, R. R., the lump coal chippings by means of the swinging trough, S.; the steamboat chippings by a trough not seen in the drawing, and the dirt from the lip screens, at O. O., by wheelbarrows. It is then all elevated by the elevators, R. R., and carried horizontally by the chain carriers, T. T., to the bars, V. That which passes over the bars goes to the so-called "monkey rollers," K²., which are similar to the others described above, but smaller; while that which passes through goes directly to the elevators, R¹. R¹. After passing through the monkey rollers, that portion goes also to the elevators, R. R., and all together are elevated to the buckwheat screen, W. All but the dirt and buckwheat coal passes through this screen and goes to the main screen, L. The buckwheat passes through the screen and drops from the jacket to its proper bin,

N^o., while the dirt passes through the jacket and goes to the hopper, D².

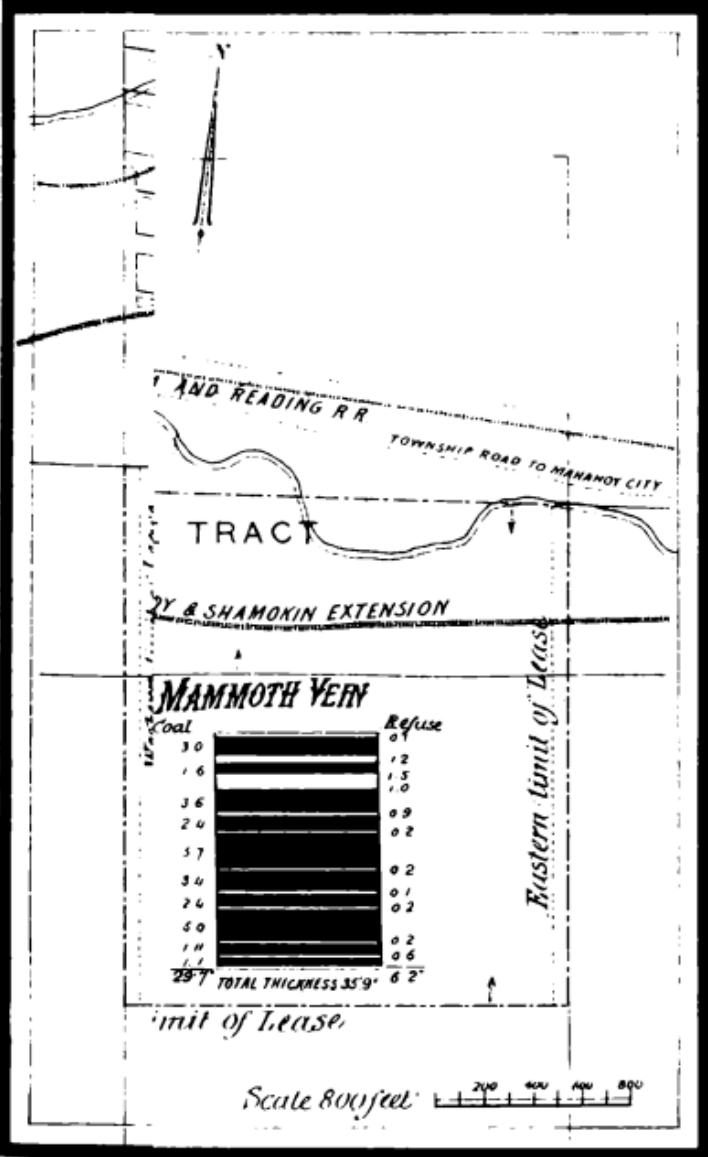
This completes the distribution of all the coal. It will be observed that in all the operations advantage is taken of the elevation of the tips A. A. above the railroad tracks to cause the coal to pass from one process to the next, continuously, by gravity, and the elevations necessary to do this are reduced to a minimum by covering the shutes and traversing floors with sheet-iron, which soon becomes highly polished.

The machinery is all moved by the stationary engine, at K., with its belt and shaft connections. The daily out-put is five hundred and twenty-five tons of prepared and lump coal. Seventy-seven boys and fifteen men are employed solely in separating the impurities from it.

This breaker is not offered as a model, filling every requirement of a breaker in the best manner now known, but simply as exemplifying the process of preparing coal for market now generally in use on the Girard Estate.

LEASE No. 2—GIRARD COLLERY.—*Philadelphia & Reading Coal & Iron Co., Lessee*,—which is shown on the accompanying map, lies on the David Reese and Samuel Reese tracts, and covers all the coal on these tracts, south of the anticlinal axis of Bear Ridge extended westward, excepting the south dipping seams which underlie the Mammoth Vein. The present list, which is the first below water-level, was opened in 1872. It has four gangways in the Mammoth Vein, two on the north, and two on the south side of the basin.

The two gangways west of the slope, which had been extended to the limit of the lease two years ago, continue to yield a considerable quantity of coal from the removal of pillars. The east



gangway, on the north side of the basin, has not yet been opened for the mining of coal. The east gangway, on the south side, has produced almost the whole of the large yield of the present year. The product of this year is the largest, but one, ever made. In common with all others on the estate, this colliery suffered in August, September and October, from the want of an adequate supply of pure water for generating steam. Part of the time mine water was used for that purpose, notwithstanding its damaging effects on the boilers.

The Philadelphia & Reading Railroad carries its coal to market. Its rate of royalty is the same as that of lease No. 1.

LEASE No. 3.—NORTH ASHLAND COLLIERY.—*Philadelphia & Reading Coal & Iron Co., Lessee.*—This lease is shown on the same map with Lease No. 5, Continental Colliery, a pillar of coal in the synclinal axis of the basin separating the two leases. It includes all the coal on the Robert Hiltzheimer, William Shannon, and George Beckham tracts, south of this division pillar, that is, all the north dipping coal. The present workings are in the Mammoth Vein, one lift below water level. The coal is a pure white ash of superior quality.

No Buck Mountain Vein coal has been mined since the present lessee took the Colliery, although this seam of coal is in good condition on this lease, and is worked by other parties on land adjoining on every side. The product of this year shows an increase over that of the last and immediately preceding years.

The royalty for 1879 will be thirty-five cents, fifteen cents, and six cents per ton, on large coal, chestnut coal, and pea coal, respectively.

The Philadelphia & Reading Railroad Co. transports its coal to market.

Two excellent pumps, made by Robert Allison, of Port Carbon, were placed in this Colliery in April of this year; one at the bottom of the slope, which hoists the water to a sump or reservoir half way up to the surface, and the other at this reservoir which hoists the water to the surface.

This pump is of simple construction, requires little attention, is efficient and durable. Though not as large as others in use in this region, having but a twenty-eight inch cylinder with six feet stroke, fourteen and a half inch plunger and a twelve inch column or discharge pipe, it hoists with ease one thousand gallons of water a minute. The quantity of water at present produced in this Colliery is not great, requiring now but three hours pumping in each twenty-four, but the difficulty of keeping up a chain pillar under the water level gangway, on so steep a pitch, made it necessary to provide against the danger of a sudden increase in the quantity of water.

LEASE No. 4.—**SHENANDOAH AND PACKER COLLIERIES**,—*Philadelphia Coal Co., Lessee*,—covers the coal on the John Brady tract between the anticlinal axis of Locust Mountain, which is north of the Shenandoah Colliery slope, and the synclinal axis, which is directly south of the Philadelphia & Reading Railroad, and the coal on the Joseph Paschall and Nathan Beach tracts, between same synclinal axis and the next anticlinal axis north, which is about on a right line drawn from Shenandoah Colliery slope engine-house eastward, to a point a hundred yards south of the northeast corner of the Nathan Beach tract. On the map showing this lease are shown, also, the lease of Lehigh Colliery, adjoining it on the north, belonging also to the Philadelphia Coal Co., and the breakers and other improvements of Shenandoah, Packer, and Lehigh Collieries.

SHENANDOAH COLLIERY mine workings have been extended this year to within one hundred and eighty yards of the lease limit on the west side, and to meet Packer Colliery workings on the east side. Although there are twenty-five breasts producing coal, a new lift is being opened by the extension of the slope used in opening the present work. The sinking of this slope was begun in October, and is now down one hundred yards below the present workings.

Some further proving of the Buck Mountain Vein was attempted in January and July, but there has not yet been sufficient advance made to get free from the confusion in the measures at this point.

The new pump was set and in working order in March. It is a duplex pump of the Albright & Strop make, with eight working barrels and a twelve-inch column pipe, and is able to keep the mines clear of water in the wettest season.

PACKER COLLIERY workings have been extended eastward until they are now within two hundred and fifty yards of the lease limit. The east counter gangway workings have been advanced two hundred yards, a new pump of the same make as that in Shenandoah Colliery, but of somewhat less size, has been set in place, the slope has been relaid with *steel* rails and the breaker has been enlarged. The yield of coal from the two collieries of this lease, over two hundred thousand tons, is in excess of that from any other lease on the estate this year.

Packer Colliery coal goes to market over the Lehigh Valley Railroad. Shenandoah Colliery's coal tonnage is divided between the Lehigh Valley, and the Philadelphia & Reading, Railroads.

The rate of royalty of both collieries for 1879 will be thirty-four cents per ton for large coal, fourteen and a half cents per ton for chestnut, and six cents per ton for pea coal.

LEASE No. 5,—CONTINENTAL COLLIERY,—*J. T. Audenried, Lessee*,—is shown on the map along with Lease No. 3. It covers all the coal on the Robert Hiltzheimer, William Shannon, and George Beckham tracts, north of the pillar of coal in the synclinal axis of the basin, which is the northern limit of the adjoining North Ashland Colliery lease.

The Mammoth Vein, which is from twenty-five to thirty feet in thickness, is the only seam worked now, although the Buck Mountain Vein, eighteen feet thick, is opened by a slope independent of the Mammoth Vein workings, and will be worked next season, and the Primrose Vein, a seam of good coal ten feet thick, has been proven and may be cut by a short tunnel.

All the coal has heretofore gone to market over the Philadelphia & Reading Railroad.

Since the Colliery has been in operation, fourteen years, the products of but three years have been greater than of this, although the greater part of this year was consumed in making improvements for the better ventilation and more economical working of the Colliery. A new airway was driven near the eastern face of the workings, and a fan placed on it, and the long list of nearly two hundred yards was divided into two by a counter gangway, from which the coal is sent down to the main gangway by a self-acting plane. This plane was completed in June; when first this year its gangways and the main gangway were then started to work.

With the necessary improvements it will not be difficult to produce a hundred and twenty thousand tons of coal per annum, and to maintain this rate of production. The royalty for the year 1879 will be thirty-five cents per ton on large coal, fifteen cents per ton on chestnut, and six cents per ton on pea coal.

LEASE No. 6,—COLORADO COLLIERY,—*Philadelphia Coal Co.*,

Lessee,—is shown on the map in conjunction with the No. 4 lease to the same Company, which adjoins it on the west. It is limited to the *north dipping coal* on the James Chapman, Samuel Scott, and part of the John Brady tracts, between the anticlinal axis of *Bear Ridge*, and the first synclinal axis north of it, which latter cannot now be accurately located, but is shown approximately correct on the map. It sends its coal to market over the Philadelphia & Reading Railroad.

It has yielded an average of over eighty-three thousand tons of coal a year for fourteen years past, and is easily able now, should the market require it, to increase its product to above a hundred thousand tons per annum. It has a sufficient reserve of Mammoth coal, along with the Buck Mountain vein, fifteen feet thick, and the Holmes, the Primrose, and other seams, to last many renewals of the present lease.

Its rate of royalty for the year 1879 is thirty-five cents per ton for large coal, fifteen cents for chestnut coal, and six cents for pea Coal.

A new pump of the same size and build as the one at Packer Colliery, was placed in the mines early in the year, and a number of boilers were added for the greater steam power required.

The rising of the basin at the eastern face of the mine workings turned the east gangway first north, then west—the coal now opened being south dipping coal.

At the face of the west workings the gangway is turning south, to conform to the curve of the workings above, produced by the fold of the measures at the point of Bear Ridge. The gathering together of all the small springs of water in the Shenandoah valley north-east of the Colliery, and the erection of a pump, worked by a water-wheel in Shenandoah creek, by which the water was raised

to the elevation necessary, greatly relieved this Colliery from the drought of the Summer and Autumn, which so embarrassed mining operations throughout this region.

LEASE No. 7.—BEAR RIDGE COLLIERIES.—*Bear Ridge Coal Co., Lessee.*—To this lease belongs all the coal on the Thomas Grant, William P. Brady, Thomas Paschall and John Blackey tracts, with what south dipping coal there is in Bear Ridge, on the Scott, Brady, J. Paschall and Beach tracts, in which are included the coal of both sides of the Mahanoy basin, not occupied by the Flower and Mertz and Stephens interfering warrants, and of the narrow basin folded in the south side of Bear Ridge. This latter, entered by the old Girard tunnel on the William P. Brady tract, makes the Bear Ridge Colliery No. 2; while the former, opened by a slope on the Thomas Grant tract, constitutes Bear Ridge Colliery, No. 1.

The Philadelphia & Reading Railroad Company carries to market the coal from both Collieries. The rate of production of these Collieries should be at least a hundred and fifty thousand tons per annum. The very small yield of this year, the smallest of all the collieries on the estate, is due to the dullness of the market, and the inability of the Company to place its coal. The rate of royalty for 1879 is, on large coal thirty-five cents, on Chestnut coal fifteen cents, and on pea-coal six cents per ton. The outlet for the coal to the surface, and the improvements for its preparation belonging to No. 2 Colliery, are on the land of Gilbert & Sheaser, adjoining.

The nearness of these collieries to the railroad shipping point, reduces their lateral tolls, and gives them at the present time an advantage of seventeen cents per ton in freight over some of the more distant collieries.

No. 1 COLLIERY mining operations are all on the south side of the basin; the north side, in which the coal proved bad on first extending the slope to a second lift, never having been attempted since. The two hundred yards of coal to the surface on the south side are divided by a counter gangway into two lifts, which are worked together in a manner calculated to save a large proportion of the coal. The gangway is first driven at the lower level on the bottom rock of the seam, from which breasts are opened and the lower benches of the coal taken out; after which a gangway is driven in the centre of the seam, a hundred yards above the lower level, and breasts opened from it directly over the breasts below. A chute is driven, connecting the breasts above and below, and the lower breasts are kept full of cut coal by the mining operations above. By this method a large percentage of the coal will be won for so steep a pitching seam.

No. 2 COLLIERY has advanced its western workings two hundred and eighty yards in the new basin cut by the tunnel. The next season will probably test the formation between these workings and those at the western face of Colorado Colliery. The progress of its eastern workings has been obstructed by the rising of the synclinal axis of the basin, which was overcome by driving the gangway on a steep grade. The coal was shaley and poor, but is now strong and good.

LEASE No. 8,—WILLIAM PENN COLLIERY,—*William Penn Coal Co., Lessee*,—lies on the Nathan Beach, Joseph Paschall and part of the John Brady tracts, and includes within its limits all the north dipping coal between the synclinal axis just south of the Philadelphia & Reading Railroad and the anticlinal axis of Bear Ridge. Its coal goes to market over the Philadelphia & Reading Railroad.

Its rate of royalty is thirty-five cents for large coal, fifteen cents for chestnut coal, and six cents for pea coal, for the year 1879.

The only perpendicular shaft on the estate is at this Colliery. This shaft is two hundred and forty-five feet deep, and has above its level three lifts on the Mammoth Vein. One, of twelve hundred yards' run, now just opened by a water-level drift, will alone furnish a year's tonnage for the Colliery. By an inside slope, sunk in 1876, another lift of a hundred yards below the shaft is opened on the Mammoth Vein, and a tunnel of eighty-two yards on the shaft level has just cut an overlying seam, the Holmes, containing eight feet of excellent coal. An Allison cataract pump, similar to those in North Ashland Colliery, was placed in the Colliery this year. Its production this year, and for five years past, has exceeded that of every other Colliery on the estate.

LEASE No. 9,—KEHLEY'S RUN COLLIERY,—*Thomas Coal Co., Lessee*,—covers all the coal on the James McNeal, Jeremiah Jackson and William Steadman tracts, between their south lines and the anticlinal axis of Locust Mountain. The colliery openings and outside improvements are on the Jeremiah Jackson tract, nearly midway between the eastern and western limits of the lease. The Philadelphia & Reading, and the Lehigh Valley, Railroads run to the Colliery, although the former alone connects with it and transports its coal to market. Its royalty for 1879 is thirty-five cents per ton for large coal, fifteen cents for chestnut coal and six cents for pea coal.

THE OLD SLOPE WORKINGS, which are one lift below water level, have been producing coal this year, on the west side from new breasts near the Hecksher airway, and on the east side from new work in the east plane gangway in the Mammoth Vein, and from both east and west gangways in the Buck Mountain Vein.

THE NEW SLOPE WORKINGS, which are one list below the Old Slope Workings, have produced coal from the west gangway in the Mammoth Vein, and from the extension of workings in the Seven Feet Vein cut by a tunnel from the Mammoth in 1877. One hundred and eighty yards of gangway have been driven, and ten breasts opened in the Seven Feet Vein, which, though small, contains superior coal. A tunnel was driven through the roll of bottom rock, which had stopped the east Mammoth gangway, and the whole gangway face is now in coal.

The product of this year, which is greatly in excess of that of any previous year, shows the most decided improvement over last year of any colliery on the estate.

The carefulness of management, and the pains taken to save and mine, to the best advantage, all the coal belonging to this lease, are worthy of special mention.

LEASE No. 10.—LEHIGH COLLIERY,—*Philadelphia Coal Co.*, Lessee,—is shown on the map with Lease No. 4, of Shenandoah and Packer Collieries. It includes all the coal on the Edward Lynch, James Howel, Israel Cope, John Brady, Joseph Paschall, and Nathan Beach tracts, between the anticlinal axis of Locust Mountain, and the first anticlinal axis south, which is the line used to define the northern limit, in the description of the Shenandoah and Packer leases. Both dips of the basin belong to this lease, and both dips were supposed to contain marketable coal, but recent developments on the adjoining property, and the great depth of the basin now proved by the sinking of the trial slope at this Colliery, tend to weaken the hope of finding good coal on the north dip. A section given herewith, showing this and the basin south of it, belonging to the Shenandoah and William Penn leases, will

convey a better understanding of the formation, than a verbal description.

The trial slope, shown on the section, is down now three hundred and fifty-six yards below the level of the second list workings.

This Colliery ships to market only by the Lehigh Valley Railroad. Its rate of royalty is, for 1879, on large coal thirty four cents per ton, on chestnut coal fourteen and a-half cents per ton, and on pea coal six cents per ton. Its production this year is much below that of last.

The eastern workings have reached the lease limit, and the western have reached about the extent of the workings on the list above and continue in good hard coal.

LEASE No. 11,—*Philadelphia Coal Co., Lessee*,—which is west of, and adjoins, Lease No. 6, Colorado Colliery, on the east, is shown on the map along with that lease. It covers the coal on the John Alexander tract, between the anticlinal axis of Bear Ridge extended, and the synclinal axis of the Shenandoah basin, east of Vine alley in Girardville.

The Lehigh Valley Railroad runs over the ground covered by the lease, and will transport its product to market. Its rate of royalty is the same as that of Colorado Colliery lease, namely, for 1879, on large coal thirty-five cents, on chestnut coal fifteen cents, and on pea coal six cents per ton, provided the seams of coal underlying and overlying the Mammoth are worked.

A start was made in September last to prove the coal outcrops and formation on the lease, preparatory to the commencement of mining operations. These explorations, which have been continued with the valuable aid of the diamond drill to the present time, and are still in progress, will throw much light on the geological formation at the eastern end of Girardville.

LEASE OF SURFACE FOR DIRT DEPOSIT.—*Preston Colliery No. 2.*—*Philadelphia & Reading Coal & Iron Co., Lessee.*—This is a lease of part of the Alexander tract, immediately north of the town of Girardville. The rental received this year, which is one cent per ton on the coal shipped from the Colliery on adjoining land, for the use of this land as a deposit for its refuse, has amounted to seven hundred and fifty-one dollars and seventeen cents.

LEASE OF TIMBER.—*On the Southern half of the John Barber, Alexander Rohrson, Herman Beatty and Peter Beatty tracts.*—*Philadelphia & Reading Coal & Iron Co., Lessee.* The timber cut under this lease is paid for by the foot. Ten thousand two hundred and sixteen dollars and twenty-four cents, were received this year for timber taken.

LEASE OF TIMBER.—*On parts of the John Lockhart, Robert White, George McCandlish, Samuel Beatty and Simon Beatty tracts.*—*William L. Torbert, Lessee.* This is the lease originally held by Nelson Brandon, whose rights under it were forfeited by his failure to make the payments stipulated. Brandon's indebtedness for timber previously taken, and the balance due were paid by Mr. Torbert, and a lease made to him. Under this lease eight hundred and fifty-four dollars and forty-four cents were received.

FARM LEASE.—*On the Thomas Davidson, John Donaldson and the southern half of the Charles Cochran tracts.*—*William L. Torbert, Lessee.* This is a modification of the first lease of the same land made to Mr. Torbert. By it he agrees to clear of stumps and put into good farming condition, and fence, fifteen acres each year; to maintain the same, and the one hundred and six acres, previously cleared, in constant cultivation; to pay all the taxes on the land leased, and fifty dollars in cash per annum.

FARM LEASE.—*On the Joseph Evans tract.—Michael Clark, Lessee.*—The annual rental of this lease is one hundred and fifty dollars and the taxes, which were, for 1877, fifty-five dollars and twenty cents. From it were received two hundred and five dollars and twenty cents.

LOT LEASES in the neighborhood of the mines have paid twenty-two hundred and seventeen dollars and eighty-three cents. Thirty-eight new leases of small lots have been made.

GIRARDVILLE TOWN LOTS.—Seven lots were sold in Girardville, from which, and other lots sold previously, thirteen hundred and seventy-four dollars and seventy-eight cents were received.

FOREST TREE CULTURE.—On the John Alexander tract five acres of land have been set apart for the cultivation of forest trees, on which are growing a thousand young oak, chestnut and pine trees, which have sprung up from the roots and seeds of former timber, and three hundred shoots of white and Scotch pine, white oak and chestnut, set out last year. The hickory and chestnut seed planted last season has done fairly.

With this stock and the new growth of timber springing up elsewhere on the estate, much land, at present waste, may be made of some value, and a supply of mine timber may be provided to meet the exhaustion of the present supply, which is rapidly growing smaller every year. Fortunately, no forest fires have occurred on the estate this year.

A part of the Shenandoah Creek, between William Penn and Packer Collieries, which flows through low ground, and near one of the outcrops of the Mammoth Vein, was straightened and made secure, and a road was graded to conform to a street in the plan of a town plot laid out on the Samuel Scott and John Brady tracts, to secure regularity in the building of small houses on ground

rent, and in the sale of lots if there should be a demand for a town there. Thirteen hundred and fifty-eight dollars and nine cents were expended on these improvements.

During the Summer and early Autumn months a severe drought prevailed, which seriously interfered with the working of the collieries. The fresh water supply, which sufficed for all purposes when the mining was above water level or not yet extensive below, becomes more inadequate every year from the operation of two causes —the increase in the quantity needed, and the decrease in the quantity available. The extension of the underground workings for miles east and west on each lease, cuts off the pure water springs, and mixes their water with the acid water of the mines, thus diminishing the supply of good water and increasing the quantity of water to be pumped to the surface. The extension of mine workings, beside bringing an increase of mine water, brings also the need of more powerful ventilation, both of which require more steam and fresh water to generate it.

The Continental, North Ashland, Hammond, Conner, Girard, Bear Ridge No. 1, and No. 2, Colorado, William Penn and Packer Collieries were almost without water during this season.

Some were compelled to stop mining coal in order that the small quantity of water they had might be used for pumping. Others, accepting the damage to boilers, rather than stop work, continued at work by the use of mine water.

During this season of drought, an examination of Lost Creek, a stream flowing over the James McNeal, Israel Cope, Joseph Howell and James Lynch tracts, was made with reference to the quantity and purity of its water, possible location on it for a reservoir, and elevation, in relation to the collieries on the estate. An estimate was made of the cost of construction of a reservoir and of main

and distributing pipes to the different collieries. Before going further than this, it was deemed proper to ascertain of which collieries the lessees were sufficiently interested in the project to pay a fair water rent. No understanding has been arrived at with the lessees on this point, on account of their reluctance to abandon the expensive improvements, including reservoirs and lines of pipe, already made, and also on account of the temporary relief since afforded by abundant rains. The time is not far distant when a resort to this or some other sure supply will be imperative.

TAXES.—The taxes of Conyngham, Mahanoy, West Mahanoy and Union Townships, and Gilberton Borough show a reduction. All others are greater than last year. The different taxes in each township and borough for the year, and the total for this and last year, were as follows:—

Township or Borough,	Road, or Borough.	Special Road.	School.	County	Poor.	1878, Total.	1877, Total.
Conyngham,.....	7 mills.	13 mills.	11 mills.	6 mills.	15 mills	54 mills	55 mills.
Butler,.....	6 "	3 "	12 "	6 5/6 "	.....	27 5/6 "	24 1/2 "
W. Mahanoy,.....	6 "	4 "	12 "	6 1/2 "	.....	29 1/2 "	29 1/2 "
Mahanoy,.....	5 "	4 "	11 1/2 "	6 1/2 "	.....	27 "	28 1/2 "
Union,.....	4 "	.....	5 "	6 1/2 "	.....	15 1/2 "	16 "
E. Union,.....	8 "	.....	1 "	6 1/2 "	.....	17 1/2 "	17 1/2 "
Girardville,.....	10 "	.....	11 "	6 5/6 "	.....	27 5/6 "	27 1/2 "
Gilberton,.....	6 "	.....	10 "	6 1/2 "	.....	29 1/2 "	31 1/2 "
Shenandoah,.....	10 "	.....	10 "	6 1/2 "	.....	46 1/2 "	44 "

THE ROAD TAXES of Conyngham, Butler and West Mahanoy townships were paid in work on the township roads.

THE SPECIAL ROAD TAXES of the same townships, which are required to be paid in cash, were paid by checks to the order of the Prothonotary of the Court.

The levies made for special road and poor taxes in Conyngham Township were twenty mills each for this year, but were reduced by order of the Court of Columbia County to thirteen and fifteen

mills respectively, upon a petition signed by the principal tax payers of the Township.

The condition of the various interests of the estate during the year, has been submitted to you from time to time in my reports, and in the copies of the reports made to me monthly by Assistant Superintendent Wagner, Mine Inspector Gwyther, and Wood Ranger Clark, which have been sent regularly to the Superintendent of the Estate.

Very respectfully yours,

HEBER S. THOMPSON,

Engineer Girard Estate.

POTTSVILLE, *December 31, 1878.*

APPENDIX C.

WILLS HOSPITAL.

APPENDIX C.

MINOR TRUSTS.

CHARLES OAT, *Superintendent.*

OFFICERS OF WILLS HOSPITAL,

Race street, between 18th and 19th streets.

EMERITUS SURGEONS.

S. LITTELL, M. D.
T. G. MORTON, M. D.
R. J. LEVIS, M. D.
W. THOMSON, M. D.

ATTENDING SURGEONS.

H. E. GOODMAN, M. D.
A. D. HALL, M. D.
G. C. HARLAN, M. D.
P. D. KEYSER, M. D.
W. W. McCCLURE, M. D.
W. F. NORRIS, M. D.
G. STRAWBRIDGE, M. D.
H. S. SCHELL, M. D.

PATHOLOGICAL CURATOR.

W. F. NORRIS, M. D.

HOUSE SURGEON.

F. M. PERKINS, M. D.

STEWARD.

JOSEPH PETTIT.

MATRON.

CAROLINE PETTIT.

CLINIC HOURS.—From 2 to 3 P. M. daily, (Sundays excepted,) at which time the Surgeons attend for the examination and treatment of the patients presenting themselves. Clinics are open to all regular Practitioners and Students of Medicine who desire to see the diseases of the eye.

WILLS HOSPITAL.

SURGEONS' REPORT FOR 1878.

To the Board of Directors of the City Trusts.

GENTLEMEN:—

WE submit, as usual, herewith the Annual Report of the surgical staff of Wills Hospital. The continuance of the large number of cases daily applying for relief at this charity shows that it is appreciated by the community, and the fact that a great proportion of the persons treated have their homes in other and distant Counties of the State, gives evidence that the Hospital is not merely local in its range, but is really deserving of kind remembrance by the people of Pennsylvania and its Legislature as a State charity.

Situated in the midst of the largest manufacturing centre in the world, the hospital necessarily receives daily a more or less numerous series of accidents to the eye which are incidental to the operations of the various mechanical trades. For instance, there are reported of injuries to the lids 11 cases, to the conjunctiva 54, to the cornea 462, to the sclerotic 26, to the iris 8, to the crystalline lens 34, to the vitreous 11 and to the ball 31, in all 637 cases, nearly one seventh of the whole number treated. By prompt and judicious treatment these injuries are generally susceptible of entire relief, and by this means an otherwise inevitable impairment of vision is avoided. The result is a return to the community of a useful member, while the failure to apply proper treatment often

implies the continued future support, by the City, of a permanently disabled man.

Another large class to which almost equally important relief has been afforded are those cases classified under the caption of "Anomalies of Refraction and Accommodation," 728 in number. The major proportion of these were women engaged in some industrial employment requiring the accurate and constant use of vision, such as the employment of sewing machines, attendance upon various kinds of machinery in cotton or woolen mills, dress making, etc. Many of these women were suffering from headache, intolerance of light, inability to use the eyes for any kind of work, and thus were often condemned to sit in darkened rooms, with folded hands, or even to abandon their occupations and means of livelihood. By a thorough analysis of the abnormal refraction and a correction of the defect by glasses which supplement the ineffectual organs, the patient is restored to health, comfort and usefulness.

Another series of cases to which it would be well perhaps to make some allusion, are reported as suffering from squint, convergent and divergent, 134 in number. These unfortunates, although probably most often annoyed principally by the cosmetic defect, are generally sufferers from a much more serious lesion, the loss, namely, of the sight of the squinting eye. This is owing to the fact that the organ being turned away from the object under observation, the brain gets into the habit of disregarding the image formed on the squinting retina, because such an image is quite foreign and impertinent to the subject upon which the attention is occupied. After this suppression of the image has been carried on for some time, the retina gradually ceases, more and more, to appreciate the action of the rays of light, and being subservient to the same law which governs other organs of the body, it becomes par-

alyzed from disuse. As these squints nearly always arise from anomalies of refraction similar to those mentioned above, a study of the dioptric system of the eye becomes necessary in order to remove the permanently acting cause of the affection, before any operative measures are instituted for the removal of the result, the contracted condition of one of the recti muscles. If then the myopia, or hypermetropia or astigmatism be relieved by appropriate spectacles, the ocular muscles are no longer subject to abnormal strain, and the squint sometimes disappears without an operation.

In those cases, however, where tenotomy is performed, the results are much better than under the old system, before the adaptation of glasses to such cases ; there is no tendency to a return of the disfigurement. In addition to this, such sight as remains, being now capable of utilization, is retained, and in many cases is even much improved, so that the patient may again come into the fortunate possession of binocular vision.

A goodly number of persons who formerly became totally blind, are now rescued from such fate by the apparently heroic expedient of cutting out one eye. Most of the 43 "enucleations," recorded in the list of operations, are cases of this nature. The eye removed is usually one which has been seriously injured in some way, to such an extent, indeed, that vision has become lost and the organ remains, probably shrivelled and misshapen ; at all events red, irritable and painful ; a veritable "thorn in the flesh ;" and excites by sympathy the other hitherto healthy organ, producing in it an inflammatory condition which ends in total destruction of its special sense. So innocent in appearance, though so really treacherous in nature, is one of these injured eyes that, like a submerged torpedo, it often remains for long periods perfectly quiescent and innocuous only to flame out at last at some slight touch, when least

expected, and to carry with it irreparable destruction. To avoid this catastrophe it is now, much more than formerly, the practice to detach this insidious element from its surroundings and to remove it entirely, so that the patient can henceforth peacefully pursue his avocations with the certainty of retaining such useful vision as he still possesses.

That modification of cataract extraction which consists in the performance of a preliminary iridectomy, has been applied during the past year in a number of instances. This expedient is adapted to such cases as appear to offer unusually hazardous conditions to the execution of the ordinary operation as described by Von Graefe. After the eye became again perfectly quiet, the opaque crystalline lens was removed, either with or without its capsule, as seemed most expedient, thus usually avoiding additional risks and difficulties from the occurrence of hemorrhage, loss of vitreous, etc.

New methods in the treatment of rebellious inflammatory cases are constantly being introduced, but none seems to be growing more in favor than is the use of eserine in ulcerous affections of the cornea, and in glaucomatous conditions of the ball. Atropia, hitherto dominant under circumstances of irritability or inflammation of the visual organ, has already deservedly lost some of its prestige, and the only fear is that the reaction from its excessive use, following the universal law of compensation, will have a tendency to carry us too far in the opposite direction.

The Hospital accommodations have been increased this year by the addition of an extension for laundry purposes, which will afford commodious facilities for the washing and ironing, which becomes so large a consideration in a Hospital of this size.

The increased area which has been added to the patients' sitting rooms is a source of much benefit to the comfort and health of

the inmates. The wards and house generally were never in better hygienic condition, and we cannot close this Report without thanking the Directors for their constant and careful attention to the wants of the Institution, or without allowing ourselves the pleasure of congratulating them upon the continuance of the prosperity and usefulness of this noble charity.

WM. F. NORRIS,

H. S. SCHELL,

H. E. GOODMAN,

Committee.

ANNUAL REPORT OF RESIDENT PHYSICIAN FOR 1878.

Philadelphia, January 1, 1879.

Resident Physician's Report to the Visiting Managers for the year 1878.

Number of patients in the House at last Yearly Report:—Males, 41 ; Females, 25 ;	Total, 66
Number admitted during 1878:—Males, 337 ; Females, 215 ;	" 552
Number discharged during 1878:—Males, 342 ; Females, 206 ;	" 548
Of these were:—	
Eloped, 33 ; Cured, 260 ; Improved, 216 ;	
Not improved, 36 ; Discharged for disorder, 5 ;	" 548
Number of patients now in the Hospital:—	
Males, 36 ; Females, 35 ;	" 71
By report for December 1878, remaining, Males, 37 ; Females, 27 ;	" 64
Surgical operations for eye diseases,	" 892
Number of new patients applying at the Dispensary,	" 4,686
Whole number of new patients treated in 1878,	" 4,446
Not proper objects for charity,	" 240

NATIVITY.—United States, 3,232 ; Germany, 292 ; Scotland, 45 ; France, 17 ; Spain, 1 ; Canada, 16 ; Ireland, 831 ; England, 192 ; Wales, 10 ; Switzerland, 9 ; Cuba, 1 ; Italy, 7 ; Portugal, 3 ; East Indies, 1 ; West Indies, 3 ; Nova Scotia, 3 ; South Wales, 2 ; Australia, 4 ; Austria, 3 ; Russia, 2 ; Poland, 1 ; Denmark, 2 ; Sweden, 7 ; Mexico, 1 ; New Brunswick, 1.

Very respectfully submitted by

F. M. PERKINS, M. D.
Resident Physician.

APPENDIX D.

DETAILED FINANCIAL STATEMENT.

APPENDIX D.

DETAILED FINANCIAL STATEMENT.

STATEMENT OF THE RECEIPTS AND EXPENDITURES OF THE MINOR TRUSTS DURING THE YEAR 1878.

WILLS HOSPITAL.

Race street, west of Eighteenth street.—" For the relief of the Indigent Blind and Lame;" where persons afflicted with the diseases of the Eye and Limb will be treated free of charge, and, when requisite, admitted into the Hospital, preference being given, under the Will, to persons residing in Philadelphia and its neighborhood.

1878.	CAPITAL:—December 31, 1878. 6 per cent. City Loan, (free of taxes) 10 Bonds and Mortgages on properties considered worth double the amount of the Mortgages, United States Government Bonds, 5 per cent., Ground Rents, Ground Rents devised by Wm. Weiss, deceased, Mortgage for \$300 from estate of Jesse George,	\$132,200 00 83,050 00 12,000 00 9,902 06 900 00 800 00 \$238,852 66
INCOME RECEIVED DURING 1878.		
	By Balance, December 31, 1877,	\$ 1,229 73
"	Cash, Interest on City Loan,	7,359 00
"	" " Mortgages,	5,795 34
"	Donation to Hospital,	67 00
"	Transferred from Yellow Fever Fund,	666 00
"	Interest on Ground Rents,	325 36
"	Board of Patients,	22 60
"	City Loan paid off,	700 00
"	two Mortgages paid off,	24,500 00
EXPENDED DURING 1878.		
	To Cash paid for House Expenses,	\$ 9,118 81
"	" " Salaries and Wages,	2,636 03
"	" " Medical Department,	1,058 70
"	" " Real Estate,	169 16
"	" " Printing,	95 00
"	" invested in City Loan,	12,244 75
"	" " U S. Bonds,	12,975 00
"	Expense Account,	600 00
"	Balance, December 31, 1878,	1,748 08
		\$40,665 03
		\$40,665 03

BENJAMIN FRANKLIN TRUST.

1878. Income to be loaned to Young Married Artificers, under the age of thirty-five years, who have served an apprenticeship in Philadelphia, and faithfully fulfilled the duties required in their indentures, and who can furnish two satisfactory securities for the return of the money in ten annual instalments, with interest at 5 per cent.
 [Applications for this loan can be made to Charles Oat, No. 19 South Fifth street, from 10 A. M. to 1 P. M.]

CAPITAL:—December 31, 1878.

6 per cent. City Loan, (Taxed.)	\$ 5,500 00
6 " " (Free.)	32,100 00
Loans to Young Married Artificers,	19,360 00

INCOME RECEIVED DURING 1878.

By Balance, December 31, 1877.	\$ 616 76
" Cash received, interest on City Loan,	2,279 40
" City Loan sold,	678 00
" " paid off,	700 00
" Instalments repaid on Loans to Artificers,	2,298 99

EXPENDED DURING 1878.

To Cash, Loans made,	\$ 3,600 00
" " Invested in City Loan,	801 50
" " Legal Fees,	5 62
" " Expense Account,	134 00
" Balance, December 31, 1878,	2,032 03

JOHN SCOTT (\$3,000 00) TRUST.

Income to be applied to same purpose as Dr. Benjamin Franklin's Legacy.

CAPITAL:—December 31, 1878.

6 per cent. City Loan, (Taxed.)	\$ 1,500 00
6 " " (Free.)	1,000 00
Loans to Young Married Artificers,	16,580 00

INCOME RECEIVED DURING 1878.

By Balance, December 31, 1877.	\$ 500 69
" Cash, Interest on City Loan,	174 90
" City Loan paid off,	200 00
" " sold,	2,034 00
" Instalments repaid on Loans to Artificers,	1,515 29

EXPENDED DURING 1878.

To Loans made to Artificers,	\$ 2,700 00
" Cash, Legal Fees,	5 63
" " Expense Account,	42 00
" " City Loan bought,	220 00
" Balance, December 31, 1878,	1,448 35

JOHN SCOTT (\$4,000 00) TRUST.

Income to be distributed "In Premiums and Medals to Ingenious men and women who make useful inventions."

CAPITAL:—December 31, 1878.

6 per cent. City Loan, (Taxed.)	\$ 1,800 00
6 " " (Free.)	23,500 00
Mortgage,	2,000 00

\$29,300 00

1878.	INCOME RECEIVED DURING 1878.		
By Balance, December 31, 1877,		\$.93 18	
" Interest on City Loan,		1,644 00	
" " " Mortgage,		120 00	
" City Loan paid off,		200 00	
	EXPENDED DURING 1878.		
To Cash, Expense Account,	\$.76 00		
" " paid premiums on useful inventions,	20 00		
" Investment in City Loan,	220 00		
" Cash, loaned B. Franklin Trust,	678 00		
" " " John Scott, \$3,000 00,	678 00		
" Balance, December 31, 1878,	376 18		
		\$2,057 18	\$2,057 18
	PAUL BECK SOUP TRUST.		
Income to be paid to the Soup Societies established in the City of Philadelphia.			
CAPITAL:—December 31, 1878.			
Ground Rent,	\$8,333 33		
	INCOME RECEIVED DURING 1878.		
By Balance, December 31, 1877,			
" Ground Rent, (9 mos.)	\$625 00		
	376 87		
	EXPENDED DURING 1878.		
To Cash—Expense Account,	\$ 20 00		
" " To Western Soup Society and Philadelphia Society for supplying the Poor with Soup in Griscom street, being the only Societies in existence in the then City at the time of bequest,	480 00		
" Balance, December 31, 1878,	501 87		
		\$1,001 87	\$1,001 87
	PAUL BECK TRUST FOR FUEL.		
Income to be distributed in Fuel to the Out-door Poor residing within the corporate limits of the Old City of Philadelphia.			
CAPITAL:—December 31, 1878.			
Ground Rent,	\$8,333 33		
	INCOME RECEIVED DURING 1878.		
By Balance, December 31, 1877,			
" 'Twelve months' Ground Rent,	\$640 35		
	500 00		
	EXPENDED DURING 1878.		
To Cash paid for Coal,	\$601 98		
" " " Wood,	20 25		
" " Expense Account,	20 00		
" Balance, December 31, 1878,	498 12		
		\$1,140 35	\$1,140 35

1878.

CITY FUEL FUND TRUST.

Consists of Five Funds, consolidated as follows:—
 The Free Masons' Fund,
 Mr. Rickett's Donation,
 The Mayor's Court Fund,
 John Bleakley's Legacy,
 Elizabeth Kirkpatrick's Legacy.

Income to be distributed in Fuel among the Poor of the Old City of Philadelphia. (E. Kirkpatrick's being without distinction of person or color.)

CAPITAL:—December 31, 1878. 6 per cent. City Loan, (Free,) .	\$6,700 00
INCOME RECEIVED DURING 1878.	
By Balance, December 31, 1877,	\$436 18
“ Interest on City Loan,	402 00
EXPENDED DURING 1878.	
To Cash paid for Coal,	\$384 67
“ “ “ Wood,	16 87
“ “ Expense Account,	20 00
“ Balance, December 31, 1878,	416 64
	\$838 18
	\$838 18

THE ROBERTS SCHOOL FUND TRUST.

CAPITAL:—December 31, 1878. 6 per cent. City Loan, (Free,) .	\$100 00
INCOME RECEIVED DURING 1878.	
By Balance, December 31, 1877,	\$78 30
“ Interest on City Loan,	6 00
“ Balance, December 31, 1878,	\$84 30
	\$84 30
	\$84 30

GIRARD SCHOOL FUND TRUST.

The Income is annually paid over to the "Board of Public Education," for the purchase of Books for the Libraries of certain Public Schools in the Old City.

CAPITAL:—December 31, 1878. 6 per cent. City Loan, (Free,) .	\$9,900 00
INCOME RECEIVED DURING 1878.	
By Balance, December 31, 1877,	\$397 00
“ Interest on City Loan,	594 00
EXPENDED DURING 1878.	
To Cash paid Board of Public Education,	\$869 00
“ “ Expense Account,	25 00
“ Balance, December 31, 1878,	397 00
	\$891 00
	\$891 00

1878.

THOMAS D. GROVER TRUST.

The income to be distributed in soup and bread to the Poor of the District of Southwark, and fuel to Poor White Widows of the same District.

CAPITAL:—December 31, 1878.

5 per cent. City Loan, (Taxed.)	538,450 00
6 " " (Free.)	9,800 00
32 Shares Spring Garden Fire Insurance Company,	1,600 00
2 Southwark Railroad Company,	28 00
House and Lot, No. 3807 Walnut street,	28,000 00
" " No. 112 Federal street,	5,000 00
" " Northeast corner Square and Corn streets,	2,000 00
Lot of Ground, situated on Stone House Lane, known as the Willow Garden,	8,000 00
	1,200 00
	<u>\$94,078 00</u>

INCOME RECEIVED DURING 1878.

By Balance, December 31, 1877.	5 86 26
Interest on City Loan,	2,395 14
Dividend on Insurance Stock,	256 00
Rent of Real Estate,	1,769 64

EXPENDED DURING 1878.

To Annuity paid,	5 600 00
" Water Rent,	32 55
" Taxes,	1,036 44
" Insurance on Real Estate,	10 00
" Sewer Rent,	4 00
" Care of Burial Ground,	18 00
" Expense Account,	199 00
" Repairs to Real Estate,	41 50
" Southwark Library Company,	300 00
" Repairing Vault and Cases,	33 00
" Cash Paid for Coal,	470 89
" Map and Frame,	85 25
" Sewer Point Road Estate,	183 31
" Southwark Soup Society,	310 00
" Balance, December 31, 1878,	1,193 10
	<u>\$4,507 04</u>
	<u>\$4,507 04</u>

SPRING GARDEN FUEL FUND TRUST.

The Income to be distributed in Fuel to the Poor, in the then District of Spring Garden, east of Broad street.

CAPITAL:—December 31, 1878.

Bond and Mortgage,

\$3,200 00

—

INCOME RECEIVED DURING 1878.

By Balance, December 31, 1877.	5 50 17
Interest on Bond and Mortgage,	192 00

EXPENDED DURING 1878.

To Cash Paid for Coal,	5302 12
" " " Wood,	10 12
" Balance, December 31, 1878,	29 93
	<u>\$342 17</u>
	<u>\$342 17</u>

1878.

ELIAS BOUDINOT TRUST.

Income to be used in the purchase of Fuel for the Poor Inhabitants of the City and Liberties of Philadelphia, and to be furnished to them "at a price during the Winter season not "in any case exceeding the moderate average price of fuel "during the preceding Summer."

CAPITAL:—December 31, 1878.

Real Estate in Centre County,
6 per cent. City Loan, (Free,)

Mortgage,

\$18,000 00
1,000 00

\$19,000 00

INCOME RECEIVED DURING 1878.

By Balance, December 31, 1877,
" Interest on City Loan,
" " " Mortgage,

\$ 808 96
1,080 00
60 00

EXPENDED DURING 1878.

To Expense Account,
" Taxes 1876 and 1877,
" Cash paid for Coal,
" Balance, December 31, 1878,

\$ 55 00
547 85
514 56
831 55

\$1,948 96

\$1,948 96

GIRARD FUEL FUND TRUST.

Income to be distributed in Fuel to the Poor White Housekeepers and Roomkeepers in the Old City of Philadelphia.

CAPITAL:—December 31, 1878.

6 per cent. Schuylkill Navigation Loan of 1897, . . .
6 " " Schuylkill Navigation Loan of 1862, . . .

\$9,089 37
273 68

\$9,362 05

By Balance, December 31, 1877,
" Interest on Schuylkill Navigation Loan, 1897, . . .

\$623 05
681 70

EXPENDED DURING 1878.

To Cash paid for Coal,
" " " Wood,
" " Expense Account,
" Balance, December 31, 1878,

\$369 87
20 25
27 00
687 63

\$1,304 75

\$1,304 75

YELLOW FEVER FUND TRUST.

The Income of this Trust is transferred to the use of Wills Hospital, under certain restrictions, by Act of Assembly of Pennsylvania, dated April 16, 1838.

CAPITAL:—December 31, 1878.

6 per cent. City Loan, (Free,)
4 shares Pennsylvania Railroad,

\$12,200 00
200 00

\$12,400 00

INCOME RECEIVED DURING 1878.

By Interest on City Loan,
Dividend on Pennsylvania Railroad,

\$732 00
4 00

EXPENDED DURING 1878.

To transfer to Wills Hospital,
" Expense Account,
" Balance, December 31, 1878,

\$666 00
33 00
37 00

\$736 00

\$736 00

HANNAH M. DODD TRUST.			
Gift of R. J. Dodd in the above name. Income for the distribution of Medals annually to the most distinguished graduates of the Girl's High School in Philadelphia.			
CAPITAL: —December 31, 1878. 6 per cent City Loan, (Free,)		\$1,100 00	
INCOME RECEIVED DURING 1878.			
By Balance, December 31, 1877, " Interest on City Loan,			\$115 40 60 00
EXPENDED DURING 1878.			
To Medals, " Investment in City Loan, " Balance, December 31, 1878,		\$30 28 114 50 30 62	
		\$175 40	\$175 40
ANDREW R. CHAMBERS TRUST.			
Income of this Fund to be given to the Soup Societies of the Consolidated City of Philadelphia, in January of each year.			
CAPITAL: —December 31, 1878. 6 per cent City Loan, (Free,)		\$1,900 00	
INCOME RECEIVED DURING 1878.			
By Balance, December 31, 1877, " Interest on City Loan,			\$57 00 114 00
EXPENDED DURING 1878.			
To Cash paid eight Soup Societies, " Balance, December 31, 1878,		\$100 33 69 67	
		\$171 00	\$171 00
SAMUEL SCOTTIN TRUST.			
" To deliver to the Poor of said City, and of Southwark, Twelve Dollars of Bread," annually.			
CAPITAL: —December 31, 1878. Principal of Ground Rent on premises No. 253 North Sixth st.,		\$200 00	
INCOME RECEIVED DURING 1878.			
By Ground Rent,			\$12 00
EXPENDED DURING 1878.			
To Bread given through Southwark and Western Soup Societies,		\$12 00	\$12 00
		\$12 00	\$12 00

1878.

F. A. SHEAFF FUEL FUND TRUST.

"Income to purchase Fuel between the months of March and September; and in the month of February, to distribute the same among Poor Housekeepers and Roomkeepers, of good character, in the City of Philadelphia."

CAPITAL:—December 31, 1878.

Invested in Mortgage of Premises No. 1708 North Nineteenth street,

\$3,000 00

INCOME RECEIVED DURING 1878.

By Balance, December 31, 1877,		\$129 25
" Interest on Mortgage,		180 00
" Expense Account on Loan,		35 00

EXPENDED DURING 1878.

To Cash paid for Coal,	\$230 58
" return Loan to Expense Account,	25 00
" Expense Account,	8 00
" Balance, December 31, 1878,	70 67
	\$334 25
	\$334 25

JACOB J. SNYDER TRUST.

"Income to be expended yearly by the Directors of City Trusts, as they may deem best, in aid of the poor people in Philadelphia."

CAPITAL:—December 31, 1878.

6 per cent. City Loan, (Free,)

\$9,500 00

INCOME DURING 1878.

By Balance, December 31, 1877,	\$252 56
" Interest on City Loan,	540 00
" Cash, Expense Account,	287 56

EXPENDED DURING 1878.

To Cash Investment in City Loan,	\$572 50
" " Expense Account,	287 50
" Balance, December 31, 1878,	220 00
	\$1,080 00
	\$1,080 00

JULIANA H. GOOD TRUST.

Income towards the maintenance of a House of Correction in the City of Philadelphia.

CAPITAL:—December 31, 1878.

6 per cent. City Loan, (Free,)

\$2,700 00

INCOME DURING 1878.

By Balance, December 31, 1877,	\$ 93 71
" Interest on City Loan,	150 00

EXPENDED DURING 1878.

To Cash Investment in City Loan,	\$229 00
" Balance, December 31, 1878,	14 75

TRUST DISTRIBUTIONS BY THE GUARDIANS OF THE POOR.

The benefits of the following nine Trusts, by their terms, are distributed by the Guardians of the Poor, the income being collected and bills paid by the Directors of City Trusts.

1878.	ESTHER WALTER'S TRUST.		
Income to be distributed in Fuel to the Poor of the City of Philadelphia, District of Southwark, and the Township of the Northern Liberties, by the Guardians of the Poor.			
CAPITAL: —December 31, 1878. Lehigh Coal and Navigation Company's Loan of 1884, . . .		\$10,463 69	
INCOME DURING 1878.			
By Balance, December 31, 1877, " Dividend from Lehigh Coal and Navigation Company's Loan,		\$754 08 627 82	
EXPENDED DURING 1878.			
To Cash paid for Coal, " " Expense Account, " Balance, December 31, 1878,		\$710 00 28 00 643 90	
		<hr/> \$1,381 90	<hr/> \$1,381 90
DAVID CLAYPOLE TRUST.			
Income to be distributed by the Guardians of the Poor.			
CAPITAL: —December 31, 1878. 6 per cent. City Loan, (Free,)		\$600 00	
INCOME DURING 1878.			
By Balance, December 31, 1877, " Interest on City Loan, To Balance, December 31, 1878,		\$93 96 36 00 \$129 96	\$93 96 36 00 \$129 96
		<hr/> \$129 96	<hr/> \$129 96

1878.	ARCHIBALD THOMPSON'S TRUST.		
	Income to be distributed in Bread to the Poor of the City of Philadelphia.		
CAPITAL:—December 31, 1878.			
6 per cent. City Loan, (Free,)		\$2,000 00	
Ground Rents,		1,764 66	
		<hr/>	
		\$3,764 66	
INCOME RECEIVED DURING 1878.			
By Balance, December 31, 1877,		\$210 71	
" Interest on City Loan,		120 00	
" " " Ground Rent,		50 00	
		<hr/>	
EXPENDED DURING 1878.			
To Cash paid for Bread,		\$201 32	
" " " Expense Account,		10 00	
" Balance, December 31, 1878,		162 39	
		<hr/>	
		\$380 71	
		<hr/>	
ANN ARMITT'S TRUST.			
Income to be distributed by the Guardians of the Poor.			
CAPITAL:—December 31, 1878.			
Ground Rent, S. E. Fifth and Plum streets,		\$300 00	
		<hr/>	
INCOME RECEIVED DURING 1878.			
By Balance, December 31, 1877,		\$54 00	
" " " 1878,		<hr/>	
		\$54 00	
		<hr/>	
		\$54 00	
WILLIAM CARTER'S TRUST.			
Income to be distributed by the Guardians of the Poor.			
CAPITAL:—December 31, 1878.			
6 per cent. City Loan, (Taxed,)		\$300 00	
Ground Rents,		551 74	
		<hr/>	
		851 74	
INCOME RECEIVED DURING 1878.			
By Balance, December 31, 1877,		\$127 14	
" Interest on City Loan,		17 10	
" " " Ground Rent, and Premium for Gold,		18 20	
		<hr/>	
EXPENDED DURING 1878.			
To Tax on Ground Rent,		\$ 10 97	
" Balance, December 31, 1878,		161 47	
		<hr/>	
		\$172 44	
		<hr/>	
		\$172 44	
B. McMAHON TRUST.			
Income to be distributed to the Poor of Penn Township, by the Guardians of the Poor.			
CAPITAL:—December 31, 1878.			
6 per cent. City Loan, (Free,)		\$500 00	
		<hr/>	

B. McMAHON TRUST.—Continued.

INCOME RECEIVED DURING 1878.

By Balance, December 31, 1877,
 " Interest on City Loan,

\$36 30
 30 00

EXPENDED DURING 1878.

To Cash paid for Coal,
 " Balance, December 31, 1878,

\$35 00
 31 30

\$66 30

\$66 30

JAMES DUTTON TRUST.

Income to be distributed in Food, Clothing, Firewood and Fuel among the Poor of the Township of Northern Liberties.

CAPITAL:—December 31, 1878.

6 per cent. City Loan, (Free,)

\$2,600 00

Ground Rent,

2,500 00

\$5,100 00

INCOME RECEIVED DURING 1878.

By Balance, December 31, 1877,

\$375 45

" Interest on City Loan,

156 00

" " " Ground Rent, premium in Silver,

155 00

EXPENDED DURING 1878.

To Cash paid for Coal,

\$357 75

" " Expense Account,

14 00

" Balance, December 31, 1878,

314 70

\$686 45

\$686 45

GEORGE EMLEN TRUST.

Income to be distributed in Fuel to Poor Widows during the Winter months, under certain restrictions, by the Guardians of the Poor.

CAPITAL:—December 31, 1878.

6 per cent City Loan, (Free,)

\$2,300 00

Schuylkill Navigation Loan of 1897,

5,200 00

" " " " " 1907,

625 00

\$7,825 00

INCOME RECEIVED DURING 1878.

By Balance, December 31, 1877,

\$521 45

" Interest on City Loan,

132 00

" " " Schuylkill Navigation Company's loan,

375 00

EXPENDED DURING 1878.

To Cash paid for Coal,

\$426 25

" " Expense Account,

22 00

" Balance, December 31, 1878,

580 16

\$1,028 41

\$1,028 41

1878.	B. W. AND J. W. MORRIS TRUST.		\$800 00
	Income to be distributed by the Guardians of the Poor.		
CAPITAL :—December 31, 1878. 6 per cent. City Loan, (Free,) .			
			\$53 77
INCOME RECEIVED DURING 1878.			
	By Balance, December 31, 1877,		48 00
	Interest on City Loan,		
EXPENDED DURING 1878.			
	To Cash paid for Coal,	\$51 25	
	" Balance, December 31, 1878,	50 52	
			\$101 77
			\$101 77

Respectfully submitted,

CHARLES OAT,
Superintendent Minor Trusts.

PHILADELPHIA, December 31, 1878.

APPENDIX E.

GIRARD COLLEGE.

APPENDIX E.

OFFICERS OF THE

GIRARD COLLEGE,

JANUARY 1, 1879.

President.

WILLIAM H. ALLEN, LL. D.

Vice-President.

HENRY W. AREY, A. M.

Faculty and Teachers.

LEMUEL STEPHENS, A. M., <i>Prof. of Physics and Industrial Science.</i>	MISS N. C. WICKHAM, <i>Teacher of Elocution.</i>
WARREN HOLDEN, A. M., <i>Prof. of Mathematics.</i>	MISS ANGELINE C. TURNER, <i>Teacher in Second School.</i>
GEORGE J. BECKER, <i>Prof. Drawing, Writing & Book-keeping.</i>	MISS SUSAN M. STATZELL, <i>Teacher in Second School.</i>
CHAS. H. BUDD, M. D., <i>Prof. of Natural History.</i>	MISS KETURAH COLE, <i>Teacher in Second School.</i>
THOMAS A'BECKETT, <i>Prof. of Vocal Music.</i>	MISS EMILY L. BROWN, <i>Teacher in Second School.</i>
MAJOR J. W. RYAN, <i>Commandant of Cadets.</i>	MISS KATE MIDDLETON, <i>Teacher in Second School.</i>
GEORGE BASTERT, <i>Instructor of Brass Band.</i>	MISS FANNIE WEST, <i>Teacher of Drawing.</i>
MISS FLORENTINE MERINO, <i>Instructor in Spanish.</i>	MISS EMMA A. GOODRICH, <i>Teacher in Second School.</i>
MME. S. ANNA SIMON, <i>Instructor in French.</i>	MRS. ANNIE E. ALLEN, <i>Teacher in Second School.</i>
MISS MARY LYNCH, <i>Teacher of English Studies.</i>	MISS CHARLOTTE OVERN, <i>Teacher in Second School.</i>
MISS JANE OVERN, <i>Teacher in Second Intermediate School.</i>	MISS HESSIE R. MILLER, <i>Teacher in First Intermediate School.</i>
MISS MARGARET WYLIE, <i>Teacher in First Intermediate School.</i>	

NEW PRIMARY DEPARTMENT.

EAST GROUP.

MISS MARY L. NEVILLE, <i>Teacher 7th.</i>
MISS KATE LINDERMAN, <i>Teacher 7th.</i>
MISS MINNIE M. JONES, <i>Teacher 7th.</i>
MISS INEZ E. WALSH, <i>Teacher 7th.</i>

WEST GROUP.

MISS LILLIE M. BURLOCK, <i>Teacher 7th.</i>
MISS E. P. TOWN, <i>Teacher 7th.</i>
MISS HALLIE BRADDOCK, <i>Teacher 7th.</i>
MISS AMELIA WIGHT, <i>Teacher 7th.</i>

HOUSEHOLD.

Matron.

MISS JANE MITCHELL.

Assistant-Matron.

MISS ANNA M. SHREVE.

Prefects.

WILLIAM H. KILPATRICK,	MISS MARY WHITE,
GEORGE W. ORAM,	MISS E. J. HARE,
HENRY H. HAY,	MISS MARY GOVERS,
ROBERT S. BRIER,	MISS MARY MADEIRA,
FRANK L. SCRIBNER,	MISS MARY J. WOODLAND.
JOHN M. HAULER,	

Governesses.

PRIMARY DEPARTMENT.

Prefects.

WILLARD B. RIVELL,	DANIEL F. WOOD.
--------------------	-----------------

Governesses.

MRS. MARY E. HENRY,	MISS CARRIE C. WILSON,
MISS SALLIE M. CHEW,	MISS ANN JANE CROSS,
MISS CAROLINE M. WHITECAR,	MRS. HANNAH M. CLOUD,
MRS. FANNY T. BOAS,	MRS. ELIZABETH B. THOMPSON.

Superintendent of Manual Labor.

I. E. SHIMER.

Steward.

THOMAS PERRINS.

Physicians.

JAMES MARKOE, JR., M. D.
JOHN J. REESE, M. D.

Dentist.

JAMES M. HARRIS, M. D.

GIRARD COLLEGE.

STAR, SCHOLARS FOR 1877.

The averages of the following pupils, for recitations and examinations combined, have been
one nine for the year, on a scale from zero to ten.

F. TURNER,
WM. RAFFERTY,
GEORGE F. PALMER,
CHARLES J. SMITH

CLASSES OF HONOR

The Third, or Highest Class of Honor, comprises all pupils whose conduct is represented .6 or more, on a scale from zero to ten; the Second, all whose conduct is marked from 9.3 6; and the First, all whose conduct is marked from 0 to 9.2, for the year.

THIRD CLASS OF HONOR

MR. F. AHLUM,
W. ROSE BARDWIN,
LIBERTY BALLINGER,
WM. S. BAYLIE,
FREDERICK J. BERGMAN,
THOMAS H. DAILY,
WASHINGTON DEVEREUX,
ELMER H. DODD,
SAMUEL DUNN,
WM. S. EDELMAN,
JOHN V. FICK,
HERMAN FRANCK,
JOHN E. HAGER,
THOMAS B. HEYES,
GEORGE S. MORRISON,
SAMUEL H. MUFCH,
WM. R. ORR,
WM. RAFFERTY,
GEORGE K. ROWE,
WM. STRAIN,
HARRY TIED,
HOWARD WOOLMAN,
WARREN YEAKER.

SECOND CLASS OF HONOR.

G. BAYNE, N. C. BOGAN, JANIS COOK, TARRY COX, NICHOLAS GILBERT, JOHN HARKNESS, SAMUEL HENAN, HENRY C. HOWLAND, JOHN HUMPHRIES, ROBERT E. JARVIS, JACOB H. JOHNSON, EDWARD R. JONES, HENRY KRAMER, CHARLES E. LAYER, GARDINER H. LEE,	ALBERT J. LEMON, JOHN S. MCCALUFY, HARRY W. MAITLAND, JACOB H. MINTZER, ROBERT H. MOORE, GEORGE H. OLIVER, WM. A. PEDDLE, THOMAS PRESTON, JOHN ROLLER, CHRISTOPHER C. SMITH, HARRY H. SOLLINGER, JOHN STILES, ALVA TOID, WINDLE WHITEMAN.
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FIRST CLASS OF HONOR.

TUS R. ANDREWS,
DERICK H. BELL,
IN M. BELL,
OSES BLUMENTHAL,
JOHN C. CONNOR,
ROBERT S. CUNNINGHAM,
AMBROSE E. B. ELY,
PETER GENTHIER,
JOHN G. GILMORE,
FRANCIS C. GRIFFITH,
ROBISON HANF,
ALEXANDER C. HEMPHILL,
THOMAS HOPKINS,
THOMAS J. JUNKIN,
WM. A. KUPPELBERGER,
THOMAS LASCOMB,
CHARLES E. LEHMAN,
WM. LEWALLEN,
FRANK LYSER,
ANDREW J. MCCLELLAN,
WM. H. MCCUSKER,
CHARLES E. MCKEAN,
JAMES W. MILLER,
DANIEL W. MOORE,
PETER A. OKE,
THOMAS D. PIERCE,
ULYSSES S. G. RILEY,
WM. S. ROBINSON,
HARRY RUHL,
FRANK RUSCHMAN,
DAVID SHARP,
THOMAS SCOTT,
THOMAS SMITH,
FRANK B. SWEENEY

GIRARD COLLEGE.

CATALOGUE OF APPRENTICES.

December 31, 1878.

<i>Apprentice.</i>	<i>Master.</i>	<i>Business.</i>	<i>Residence.</i>	<i>App. Born.</i>
John Abercrombie,	John Lawson,	Locksmith,	Philadelphia,	Jan. 21, 1860
Jno. J. Adams,	David J. Kerr,	Segar Maker,	do	Sept. 8, 1860
Edw. M. Amies,	M. Alexander,	Attorney-at-Law,	Altoona,	Oct. 19, 1859
James Anderson,	Philip Herst,	Hat Mfr.,	Philadelphia,	Nov. 29, 1860
Henry Arter,	Jno. A. Shearer,	Baker,	Duncannon,	Dec. 8, 1861
Wm. C. Ashburn,	W. S. Caldwell,	Farmer,	Strode's Mills,	Mar. 10, 1862
Alterie C. Aspey,	C. H. C. Algeyer,	Watch Maker,	Philadelphia,	Sept. 1, 1860
Wm. S. Baer,	Jas. H. Little,	Attorney-at-Law,	do	Apr. 12, 1861
Sam'l. Blake,	Geo. W. Taylor,	Farmer,	Chester County,	Dec. 26, 1860
Henry Block,	R. S. Stout,	Farmer,	Newportville,	Dec. 10, 1863
Wm. C. Bogard,	Jacob. Wagner,	Farmer,	Downingtown,	Aug. 18, 1859
John Boland,	Alex. Krumphaar,	File Cutter,	Philadelphia,	July 10, 1861
John F. Bowers,	Thos. S. Harrison,	Accountant,	do	Sept. 13, 1858
Albert Bowman,	Jacob J. Lang,	Victualler,	do	July 22, 1860
Henry A. Lloyd,	Jas. McCormick,	Accountant,	do	Sept. 4, 1859
Saml. W. Brown,	F. Gutekunst,	Photographer,	do	Feb. 14, 1858
Robt. A. Brown,	C. Stephens,	Broom Mfr.,	do	Mar. 13, 1861
Thos. Britt,	— Grant,	Printer,	do	July 31, 1861
Humphrey Calhoun,	E. M. Dexter,	Confectioner,	do	Sept. 9, 1859
Emanuel Calvert,	W. McClelland,	Shoe Cutter,	Chester,	June 6, 1859
Wm. H. Campbell,	Saml. Eakins,	Electro Plater,	Philadelphia,	Jan. 2, 1859
George W. Care,	Alex. Krumphaar,	Accountant,	do	July 15, 1859
Wm. D. Carlisle,	Albert T. Manthy,	Accountant,	do	Mar. 6, 1861
John C. Carlisle,	Benj. M. Dusenberry,	Compositor,	do	June 16, 1860
Jas. W. Carr,	Sydney Buckley,	Shoe Cutter,	do	Aug. 15, 1858
Rufus Choate,	Robt. D. Pinkert,	Umbrella Maker,	do	Nov. 15, 1859
John W. Clark,	Edw. Loud,	Photographer,	do	Sept. 18, 1862
Chas. H. Clark,	Wm. W. Mayberry,	Printer,	do	July 1, 1861
Wm. T. Collius,	N. Billstein,	Printer,	do	Aug. 31, 1861

Apprentice.	Master.	Business.	Residence.	App. Born.
Hiram O. Cowdrick,	Chas. W. Hearn,	Photographer,	Philadelphia,	Sept. 19, 1859
Alfred H. Cope,	Jno. Harrison,	Accountant,	"	April 26, 1860
Albert Costello,	H. Muhr,	Jewelry Mfr.	"	Mar. 7, 1861
Thos. D. Cusack,	J. H. Strickland,	Florist,	"	Dec. 31, 1861
Robert Cunningham,	Wm. Raymond,	Farmer,	Bucks County,	Mar. 15, 1858
Franklin V. Davis,	Thos. J. Young,	Carriage Painter,	Montgomery Co.	June 24, 1859
Abr. Davis,	Wm. March,	Accountant,	Huntingdon,	June 26, 1859
Edw. Dawson,	John H. Sangston,	Painter,	Philadelphia,	Dec. 28, 1860
Edward K. Delaney,	Wm. Isaac,	Stained Glass,	"	Oct. 1, 1861
Frederick DeBurlo,	Henry Mortimer,	Hat Manf.,	"	Feb. 5, 1861
David DeLacey,	Jos. F. Ward,	Carpenter,	"	June 11, 1863
Wm. Devine,	Ered. Madeira,	Sash Manf.,	"	July 13, 1860
——— DeBeust,	John Berrell, jr.,	Butcher,	"	Aug. 22, 1861
John H. Dempsey,	A. McCamant,	Farmer,	Pennsylvania,	Jan. 5, 1864
Wm. J. Dick,	Noble Given,	Box Maker,	Philadelphia,	April 15, 1860
Wm. Diehl,	Geo. Fontyn,	Shoemaker,	"	June 23, 1861
Edw. B. Dizer,	Chas Bentrick,	Accountant,	"	Oct. 8, 1861
John T. Dougherty,	C. Kayser,	Cigar Mfr.	"	Oct. 15, 1860
Chas. H. Douglas,	Joseph Sperry,	Shoemaker,	"	Nov. 10, 1863
Peter Duffy,	Robt. E. Ross,	Accountant,	Somerset Co.,	May 29, 1860
Edwin Edwards,	John W. Smith,	Carpenter,	Philadelphia,	May 9, 1861
Chas. H. Eimerman,	J. R. Ritter,	Conveyancer,	"	Dec. 21, 1860
Jas. B. Famous,	Wm. Hallowell,	Bricklayer,	Norristown,	Aug. 31, 1859
Henry A. Feaster,	Francis Feaster,	Tin Roofing,	Philadelphia,	Dec. 19, 1861
John A. Fisher,	August Lutz,	Florist,	"	Jan. 19, 1860
Hiram Fite,	Gormley & Co.,	Plumbers,	"	Mar. 27, 1859
Theo. F. Floyd,	Chas. Schroder,	Engraver,	"	Sept. 14, 1861
Edmund W. Fry,	Samuel H. Gillam,	Printer,	"	Dec. 23, 1860
John C. Gass,	Chas. Copestick,	Farmer,	Wellsboro,	Jan. 16, 1860
Abr. Gilmore,	Abr. Walker,	Carriage Maker,	Philadelphia,	May 4, 1860
Wm. P. Grady,	Jas. H. Bourgard,	Baker,	Philadelphia,	June 28, 1863
Jos. B. Grigg,	Wm. H. Zeilar,	Printer,	Pennsylvania,	Aug. 12, 1862
Robt. J. Gordon,	Rich. J. Irwin,	Accountant,	Philadelphia,	Jan. 8, 1860
Emil Gullman,	Fred. Oldach,	Book Binder,	"	May 14, 1860
John J. Hare,	Jos. Ladomus,	Watchmaker,	Chester,	Nov. 10, 1858
Albert B. Harmer,	John Wolfinger,	Car'ge Blksmith,	Philadelphia,	July 18, 1859
Thos. G. Harper,	Wm. G. Rodgers,	Carriage Builder,	"	Feb. 16, 1861
Frank Hawk,	Jno. F. Reichardt,	Grocer,	Falls of Sch'kill,	May 17, 1860
Thos. R. Hely,	Thos. L. Harrison,	Accountant,	Philadelphia,	Mar. 15, 1859
Robert Hedges,	William R. Diehl,	Harness Maker,	Bucks County,	Feb. 6, 1858
Wm. A. Houseman,	T. B. Luzier,	Pattern Maker,	Philadelphia,	Sept. 25, 1861
H. M. Humphreys,	Elias Pennepacker,	Farmer,	Mifflin County,	Aug. 23, 1858
W. H. Hunter,	A. Y. Andrews,	Leather Goods,	Philadelphia,	Nov. 15, 1860
Thos. S. Jamison,	Michael Carey,	Horse Shoer,	"	May 31, 1864
Chas. Jackson,	T. R. Wilkinson,	Farmer,	Pennsylvania,	Jan. 22, 1862
Daniel Kammerer,	Edw. W. Fell,	Farmer,	Bucks County,	Aug. 11, 1859
Robert B. Keesy,	John Murray,	Stone Cutter,	Philadelphia,	June 22, 1862
Robert Keown,	Jos. E. Tulloway,	Paper Hanger,	"	Jan. 31, 1860
Oscar Kelchner,	John R. Bratton,	Farmer,	McVeytown,	Dec. 31, 1860
Samuel J. Lawson,	Daniel Tobin,	Carpenter,	Philadelphia,	Jan. 17, 1862
James Lennon,	Benj. M. Dusenberry,	Compositor,	"	Jan. 25, 1861
John Lester,	David A. Garvin,	Tigsmith,	"	Nov. 20, 1859

Apprentice.	Master.	Business.	Residence.*	App. Born.
Thos. H. Levitt,	J. S. Hartell,	Manf. Plows, etc., Pennsylvania,		Dec. 12, 1860
Geo. H. Lockhart,	Wm. M. Delcher	Shoes, Philadelphia,		Jan. 23, 1861
Chas. L. Lyons,	Rich. V. Newsham,	Pattern Maker, Philadelphia,		Dec. 3, 1859
Francis F. Macken,	Wm. Thomason,	Tin Plate,	"	Feb. 4, 1860
Wm. V. Martin,	R. O. Moorhouse,	Machinist, Philadelphia,		July 16, 1861
Wm. J. Myers,	Geo. W. Jones,	Farmer, McVeytown,		June 7, 1861
Howard Marshall,	Jos. Sperry,	Shoemaker, Philadelphia,		Oct. 8, 1860
Chas. C. Matthews,	Wm. H. Care,	Carpenter,	"	June 12, 1863
Jacob G. May,	Peter Pilger,	Shoemaker,	"	Mar. 24, 1860
Jas. Mead,	W. L. Owens,	Farmer, Mifflin County,		June 12, 1863
Spencer B. Meeser,	Croft, Wilbur & Co.,	Confectioners, Philadelphia,		Feb. 16, 1859
George Mecouch,	Alex. Krumhaar,	File Cutter,	"	Mar. 8, 1861
Wm. C. Mercer,	Geo. Armstrong,	Conveyancer,	"	Oct. 30, 1858
Wm. Meyers,	Benj. M. Dusenberry,	Composer,	"	Jan. 24, 1860
Jacob Middleton,	John H. Poole,	Brass Founder,	"	Jan. 18, 1858
John L. Montgomery,	Henry R. Shultz,	Broker,	"	May 24, 1861
John H. Morgan,	Frank Stickney,	Painter,	"	Jan. 27, 1861
Wm. Miller,	Henry Dississ,	Accountant,	"	Sept. 29, 1859
John S. Moore,	W. H. Hamilton,	Harness Maker, Hartsville,		Oct. 31, 1860
Paul A. Morini,	John J. McFall,	Plumber, Philadelphia,		Sept. 29, 1860
John Morrow,	Louis E. Levy,	Photo Engraver,	"	Sept. 9, 1862
Wm. J. Mullen,	Adam Sherrard,	Sign Painter,	"	Mar. 22, 1859
Alonso Mowry,	John F. Hope,	Designer,	"	Mar. 25, 1860
Geo. F. McGonigle,	Louis E. Levy,	Photo Engraver,	"	June 17, 1862
Joseph A. M'Canley,	S. M. Brown,	Farmer, Mifflin County,		Feb. 12, 1859
William M'Carter,	H. W. Forgy,	Farmer, McVeytown,		June 21, 1860
Thos. M'Clay,	Wm. Lackie,	Grocer, Philadelphia,		Feb. 18, 1859
John B. M'Crea,	Alex. Krumhaar,	File Cutter,	"	Aug. 1, 1859
Geo. M'Crea,	Sarah D. Wood,	Cake Baker,	"	Oct. 3, 1859
Jas. B. M'Creary,	Samuel J. Rogers,	Carriage Builder,	"	Feb. 11, 1858
Jas. M' Connell,	W. Richardson,	Farmer,	Bucks County,	June 9, 1862
John G. McDonald,	J. H. Wanamaker,	Engraver, Philadelphia,		April 6, 1861
Edw'd S. McGecy,	Philip Heist,	Hat Manufac't'r,	"	Sept. 7, 1861
Alex. McKinley,	Jas. Chapman,	Painter,	"	Aug. 24, 1861
Henry McDermott,	Henry H. Smith,	Accountant,	"	Oct. 9, 1861
James M'Feters,	Wm. Spangler,	Carriage Builder, Snyder County,		Mar. 25, 1859
Rob't M'Gill,	Henry Bentley,	Tel. Operator, Philadelphia,		April 22, 1860
James M'Ilvesey,	W. H. Triack,	Blacksmith,	"	Aug. 23, 1859
John G. M' Kee,	Cephas R. Carver,	Machinist,	"	Feb. 20, 1859
Alex. M'Leod,	Alex. Bottomley,	Watchmaker,	"	Mar. 19, 1858
Wm. J. McQuaid,	Geo. L. Harrison, jr.,	Accountant,	"	Mar. 4, 1860
Jacob Moore,	Samuel Walker,	Farmer, Pennsylvania,		Dec. 31, 1863
Henry Nagle,	John W. Young,	Farmer, Olney,		Sept. 12, 1861
Samuel Neff,	Thos. H. Peckworth,	Blacksmith, Philadelphia,		Oct. 16, 1860
Geo. H. Nipperd,	W. S. Marvin,	Farmer, Bradford County,		July 7, 1862
Elmer E. Nixon,	John Walker,	Farmer, Germantown,		Oct. 23, 1861
Chas. F. Oliver,	W. W. Goodwin,	Mfr. Gas Meters, Philadelphia,		June 10, 1858
Wm. L. Pascoe,	A. A. Stevens,	Attorney-at-Law, Tyrone.		Feb. 26, 1860
George H. Paxton,	Joseph Elliott,	Farmer, Mifflin County,		June 14, 1859
John H. Pepper,	Henry M. Hassey,	Baker, Philadelphia,		Feb. 15, 1858
Fred. Peru,	Jos. Sperry,	Shoemaker,	"	Dec. 13, 1859

<i>Apprentice.</i>	<i>Master.</i>	<i>Business.</i>	<i>Residence.</i>	<i>App. Born.</i>
John G. Porter,	James M'Connell,	Plasterer,	Philadelphia.	July 21, 1859
John B. Reed,	Thomas Richardson,	Granite Cutter,	"	Mar. 14, 1858
Edwin A. Reade,	Samuel A. Reed,	Shoe Manufac'r,	"	Dec. 21, 1859
Samuel A. Reeves,	Fred'k Bower,	Tailor,	"	Oct. 19, 1861
Howard Robins,	Mortimer Bickley,	Druggist,	Chester,	Mar. 7, 1859
Dani. A. Rogers,	Louis E. Levy,	Photo Engraver,	Philadelphia,	April 30, 1862
John J. Rodgers,	Wm. E. Littleton,	Conveyancer,	"	May 2, 1869
Claudius Romaine,	John Patterson,	Gas Fitter,	"	July 14, 1861
Lewis Schuman,	Ambruse Howell,	Barber,	"	Aug. 22, 1859
John S. Sherry,	Cephas R. Carver,	Machinist,	"	June 24, 1858
John B. Shibe,	J. W. Young,	Farmer,	Olney,	May 28, 1861
Chas. Shingle,	Franklin Forgy,	Farmer,	McVeytown,	April 12, 1860
Chas. Siddle,	I. R. Trautwine,	Barber,	Philadelphia,	Feb. 6, 1863
George W. Slocum,	Robert Walker,	Farmer,	Pennsylvania,	Dec. 21, 1862
Albert F. Sprout,	James A. Moore,	Printer,	Philadelphia,	Oct. 27, 1859
Wm M. Stevens,	H. R. Hertzell,	Florist,	Reading,	Dec. 14, 1863
George Stevens,	Wmfield Bantom,	Farmer,	Hestonville,	Aug. 25, 1861
John M. Strong,	John A. Clark,	Conveyancer,	Philadelphia,	April 13, 1861
Alex. W. Struthers,	J. J. Steel,	Printer,	Ashland,	Nov. 10, 1858
Chas. Stuart,	Warren Barnes,	Farmer,	Willow Grove,	Sept. 21, 1859
Joseph Sutton,	Thos. Sharp,	Grocer,	Philadelphia,	Nov. 21, 1860
Miles D. Sweeney,	Wm H. Doyle,	Plumber,	do	Mar. 28, 1858
Walter F. Taylor,	Walter F. Woldkill,	Machinist,	do	Dec. 29, 1859
David Tees,	Robt. Tees,	Baker,	do	Jan. 20, 1861
Jno. D. Thomas,	Jas. H. Windrim,	Architect,	do	July 10, 1860
Thos. Tobin,	René Guilou,	Real Estate,	do	May 19, 1860
Walter M. Voorhees,	E. Waring,	Bookseller,	Tyrone,	Oct. 12, 1861
Wm. A. Wall,	Chas. B. Higman,	Carpenter,	Philadelphia,	Oct. 16, 1859
David Wallace,	Cephas R. Carver,	Machinist,	do	Dec. 15, 1859
Benj. Wagner,	Jacob F. Gearing,	Florist,	do	Aug. 1, 1863
Jas. W. Walker,	W. C. Morrell,	Printer,	do	Dec. 31, 1859
Robert Williams,	William H. Hopkins,	Grocer,	do	Feb. 22, 1858
Alex. Wilson,	Alex. Krumbhaar,	File Cutter,	do	Nov. 24, 1860
Du Bois Wilson,	Frank M. Etting,	Farmer,	Pennsylvania,	Dec. 11, 1861
Jos. Wilson,	Chas. Milligan,	Phil. Ins. Maker,	Philadelphia,	Aug. 8, 1859
Robt. D. Wilson,	René Guillou,	Real Estate,	do	Nov. 23, 1861
Jehyle Wisner,	J. B. Ferguson,	Farmer,	Clearfield Co.,	Mar. 20, 1861
Gust. A. Wolfe,	Lewis Baltzer,	Cork Manuf.,	Philadelphia,	July 1, 1859
Jas. A. Wright,	Wm. F. Hamlyn,	Farmer,	Pennsylvania,	Oct. 16, 1861
Richard C. Wright,	Jacob Schwartz,	Mus. Ins. Maker,	Philadelphia,	Aug. 24, 1859
Warren D. Yearsly,	Geo. L. Harrison,	Manuf. Chemist,	do	Sept. 28, 1859
Lewis A. Yerkes,	Jno. Patterson,	Painter,	do	May 19, 1861
Albert S. Young.	P. F. McCloskey.	Grocer.	do	July 20, 1861

GIRARD COLLEGE.

CATALOGUE, DECEMBER 31, 1878

THIRD SCHOOL.

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>
Adams, Edward L.	Aug. 30, 1865	Dec. 30, 1872	5.92
Ahlum, Charles F.	Aug. 11, 1863	June 27, 1872	6.45
Alexander, Joseph B.	Dec. 27, 1864	June 27, 1872	7.77
Alloways, William C.	Oct. 31, 1863	Sept. 14, 1871	5.80
Andrews, Augustus R.	Sept. 5, 1862	Oct. 13, 1870	8.74
Angerman, Joseph E.	Dec. 29, 1862	Feb. 9, 1871	6.18
Ashmore, Snowden D.	Oct. 13, 1863	Oct. 13, 1870	6.81
Atkinson, James F.	Oct. 17, 1862	June 27, 1872	7.61
Atwood, William O.	Oct. 6, 1862	Sept. 14, 1871	8.19
Baird, Albert H.	Feb. 28, 1862	Mar. 14, 1870	7.38
Baldwin, Penrose,	Dec. 22, 1862	Oct. 13, 1870	6.54
Ballinger, Albert L.	May 13, 1863	Sept. 14, 1871	8.69
Barnes, Robert J.	Mar. 30, 1864	Dec. 30, 1872	6.69
Barr, James	Apr. 2, 1865	Dec. 30, 1872	6.76
Bauer, Frederick R.	July 6, 1864	Sept. 14, 1871	6.26
Baylie, William S.	Feb. 26, 1861	Jan. 4, 1870	
Beck, Charles S.	Jan. 5, 1863	Dec. 30, 1872	7.17
Bell, Alexander R.	Feb. 13, 1864	Dec. 3, 1870	5.55
Bell, Frederick H.	Jan. 21, 1862	Jan. 4, 1870	6.01
Bell, John M.	Jan. 8, 1865	Sept. 19, 1873	7.61
Bell, Robert M.	Mar. 18, 1863	Oct. 13, 1870	6.60
Bergman, Frederick J.	Feb. 28, 1861	Jan. 4, 1870	
Bernhard, William B.	Mar. 26, 1861	Jan. 4, 1870	5.68
Bogan, John C.	July 27, 1862	Oct. 13, 1870	8.90
Brinkman, Charles	Nov. 10, 1866	Sept. 19, 1873	8.71
Brown, Robert A.	Mar. 13, 1861	Jan. 4, 1870	
Brown, Thomas	Oct. 31, 1864	Sept. 14, 1871	7.63
Burns, Harry	Oct. 25, 1863	Oct. 13, 1870	5.77
Campbell, Joseph A.	Sept. 27, 1864	June 27, 1872	7.53

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Carpenter, Charles H.	Feb. 13, 1864	Oct. 11, 1873	6.82	6.96
Clare, Edmund S.	Nov. 4, 1865	Dec. 30, 1874	8.17	7.10
Collins, John W.	Aug. 28, 1861	Jan. 4, 1870	7.78	8.41
Conner, John C.	Feb. 14, 1861	Jan. 27, 1870	7.09	9.04
Cook, John M.	May 14, 1865	Sept. 14, 1871	7.91	5.25
Coxe, Harry	Nov. 17, 1863	Sept. 14, 1871	6.59	9.53
Cunningham, Robert S.	Ang. 10, 1865	June 27, 1872	6.27	9.07
Dale, James V. P.	Feb. 11, 1862	Oct. 15, 1868		8.51
Daily, Thomas H.	July 5, 1862	June 27, 1872	8.53	9.88
Davenport, Horace L.	Mar. 4, 1865	Sept. 14, 1871	8.46	7.88
Davis, Richard B.	July 3, 1862	Jan. 29, 1869	6.77	7.50
Dawes, Charles H.	May 11, 1865	June 27, 1872	6.37	6.25
De Forrest, George C.	Aug. 19, 1863	Oct. 13, 1870	7.71	7.82
Denny, Frank	Jan. 5, 1865	Sept. 14, 1871	6.10	8.19
Devereux, Washington	Feb. 9, 1863	Dec. 30, 1872	7.75	9.91
Dickes, Walter	June 4, 1866	Dec. 30, 1872	7.50	8.70
Dodd, Elmer	May 13, 1862	Sept. 14, 1871	8.23	9.77
Dunn, Samuel	Apr. 16, 1863	Sept. 14, 1871	7.06	9.87
Eberman, William S.	Oct. 4, 1862	Oct. 13, 1870	6.85	9.63
Egan, John G.	Oct. 28, 1863	June 27, 1872	6.38	7.65
Ely, Ambrose E. B.	Dec. 5, 1863	Mar. 30, 1873	6.47	9.18
Esrey, Edward	Mar. 6, 1864	Dec. 30, 1872	4.30	6.12
Farley, James L.	Dec. 23, 1864	Sept. 14, 1871	7.78	7.15
Faust, Howard G.	Apr. 18, 1863	Oct. 13, 1870	8.24	8.38
Fick, John V.	June 17, 1864	Dec. 20, 1873	7.16	9.88
Flood, Martin	Mar. 12, 1862	Sept. 14, 1871	5.98	8.12
Flood, Thomas	Nov. 29, 1865	Mar. 30, 1873	5.63	8.36
Forbes, James	Sept. 6, 1861	Jan. 27, 1870		8.79
Foster, Charles L.	Feb. 2, 1866	Dec. 30, 1872	8.68	7.56
Foster, James H.	Nov. 9, 1862	Oct. 13, 1870	6.10	8.28
Fox, Harry C.	Oct. 11, 1863	June 27, 1872	6.96	8.38
Genthaler, Peter	Aug. 9, 1862	Sept. 14, 1871	6.98	9.14
George, Elmer E.	Aug. 31, 1863	Dec. 30, 1872	7.08	8.13
Getty, William L.	Apr. 26, 1865	June 27, 1872	6.27	6.53
Gigon, Julius	Mar. 21, 1864	Sept. 14, 1871	6.29	8.65
Gilbert, Nicholas T.	June 17, 1862	Jan. 29, 1869	7.31	9.49
Gilmore, John G.	Apr. 30, 1866	Dec. 30, 1872	7.44	9.01
Graeff, William H.	July 28, 1862	Feb. 9, 1871	6.63	7.66
Gray, Edmund S.	Mar. 12, 1864	Sept. 14, 1871	6.35	8.69
Griffith, Francis G.	Nov. 14, 1863	Sept. 14, 1871	6.10	9.29
Griffith, Robert S.	May 5, 1864	Dec. 30, 1873	6.91	7.11
Hager, John E.	Feb. 27, 1864	Sept. 14, 1871	7.46	9.67
Haigh, John C.	Feb. 6, 1863	Dec. 30, 1872	6.53	8.76
Haines, William C.	June 23, 1863	Sept. 14, 1871	5.95	8.51
Hamilton, Robert	Jan. 1, 1866	Dec. 30, 1872	7.46	8.84
Hamilton, Thomas	May 26, 1864	Oct. 13, 1870	7.10	7.62
Hanf, Robinzon	June 14, 1861	Jan. 4, 1870	6.73	9.08
Hansberry, Robert S.	Mar. 14, 1863	Sept. 14, 1871	5.18	8.67
Harder, Washington W.	Feb. 23, 1865	Mar. 13, 1873	7.95	7.73
Harms, Harry	Aug. 17, 1862	Dec. 3, 1870	6.31	8.71

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Haslam, John	Aug. 2, 1861	Feb. 9, 1871	6.93	8.89
Hayes, Patrick H.	Feb. 15, 1865	Dec. 30, 1872	6.66	5.93
Heenan, Samuel J.	July 4, 1861	Dec. 3, 1870	7.28	9.59
Hemphill, Alexander C.	Dec. 24, 1862	June 24, 1872	7.25	9.22
Hewitt, Richard C.	Feb. 28, 1862	Oct. 13, 1870	8.31	8.30
Hibbs, Samuel D. V.	Dec. 2, 1862	Oct. 13, 1870	6.80	8.63
Hoffman, John H.	Oct. 7, 1864	Dec. 30, 1873	6.50	8.39
Hoffman, Samuel F.	Sept. 19, 1862	Feb. 9, 1871	6.49	6.88
Hohenstein, William	May 24, 1864	Dec. 30, 1872	7.57	8.61
Hopkins, Thomas	Sept. 24, 1863	Feb. 9, 1871	6.49	9.04
Horn, Herman C.	Dec. 4, 1864	Mar. 13, 1873	8.42	6.89
Hornberger, Gustavus	Mar. 3, 1863	Feb. 9, 1871	7.98	8.04
Howland, Henry C.	June 28, 1864	May 29, 1874	8.22	9.53
Humphries, John	Aug. 13, 1865	June 27, 1872	6.67	9.38
Hussey, William H.	Aug. 18, 1866	May 2, 1873	8.62	8.45
Jackson, Jesse R.	Jan. 20, 1863	Sept. 14, 1871	6.71	6.30
Jacobs, John	Aug. 29, 1865	June 27, 1872	8.21	6.51
Jarvis, Robert E.	Oct. 22, 1861	Jan. 4, 1870	4.71	9.49
Jeffries, Norman H.	Dec. 20, 1865	Dec. 30, 1874	8.74	5.57
Johnson, George M.	June 27, 1866	Dec. 30, 1874	8.21	8.09
Johnson, Jacob H.	May 16, 1863	June 27, 1872	8.09	9.40
Jones, Abraham L.	May 12, 1865	May 2, 1873	7.81	7.86
Jones, John M.	Oct. 2, 1864	Dec. 30, 1872	6.14	7.30
Keys, John	Oct. 19, 1863	Sept. 14, 1871	6.23	7.09
Kilpatrick, Edward J.	June 10, 1862	Oct. 13, 1870	6.40	8.75
Kindle, David S.	Aug. 8, 1863	Dec. 30, 1872	6.95	8.95
Koffenberger, Henry	April 4, 1862	Sept. 14, 1871	5.88	7.77
Kofke, Christian	Nov. 29, 1863	Oct. 13, 1870	7.35	7.08
Koon, George	May 29, 1863	June 27, 1872	6.87	7.01
Koppenhoffer, Lewis	July 15, 1864	Dec. 30, 1873	7.82	8.62
Kupplerberger, William A.	Jan. 4, 1863	Oct. 13, 1870	6.76	9.13
Lacey, Charles E.	Dec. 13, 1864	Dec. 30, 1872	5.60	7.48
Lamplugh, Augustus	Jan. 12, 1865	Sept. 14, 1871	6.13	5.99
Lakecomb, Thomas	Jan. 2, 1862	Feb. 9, 1871	6.33	9.08
Leach, Charles W.	Aug. 30, 1863	Oct. 13, 1870	5.90	7.02
Lee, Gardner H.	Feb. 27, 1864	May 2, 1873	6.10	9.45
Lewallen, William	Oct. 29, 1865	May 2, 1873	7.51	7.11
Love, William V.	Mar. 5, 1863	Dec. 30, 1872	7.68	8.98
Lyster, Frank	Aug. 17, 1865	Sept. 26, 1874	8.54	9.04
McCaulay, John S.	Sept. 13, 1863	Sept. 14, 1871	7.35	9.42
McClellan, Andrew J.	Mar. 17, 1863	June 27, 1872	7.00	9.26
McCoy, William	Mar. 14, 1863	Oct. 2, 1871	6.24	7.15
McDermott, William	Sept. 18, 1863	Oct. 13, 1870	6.13	8.96
McDowell, Stunt H.	Oct. 8, 1863	Dec. 3, 1870	7.43	8.57
McFall, Thomas	Aug. 29, 1861	Oct. 13, 1870	7.21	8.42
McKean, Charles E.	July 1, 1863	Dec. 30, 1872	7.55	9.19
McKeown, John J.	Mar. 22, 1862	Sept. 14, 1871	7.57	7.83
McVaugh, Caleb C.	Apr. 9, 1863	Sept. 14, 1871	6.73	8.46
Maguire, Edward	Mar. 13, 1863	Dec. 30, 1872	6.92	8.41
Maitland, Henry W.	May 20, 1863	May 6, 1873	8.87	9.45

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Maucher, Samuel	Sept. 8, 1863	Sept. 14, 1871	5.75	4.76
Miller, James W.	July 29, 1861	Oct. 13, 1870	8.08	9.25
Milligan, John	Aug. 8, 1861	Jan. 4, 1870	6.56	8.49
Mintzer, Jacob W.	Oct. 18, 1861	Oct. 13, 1870	8.65	9.43
Moffit, Robert W.	Jan. 1, 1863	Dec. 3, 1870	6.60	8.67
Moore, Daniel F.	Jan. 2, 1866	March 13, 1873	8.51	9.29
Moore, Robert H.	April 29, 1864	Sept. 14, 1871	7.98	9.52
Morrison, George G.	Feb. 18, 1866	March 13, 1873	8.40	6.94
Morrison, George S.	Nov. 9, 1863	June 27, 1872	7.79	9.79
Munyan, John B.	Nov. 14, 1864	Sept. 14, 1871	5.93	7.01
Mutch, Samuel H.	Feb. 29, 1864	Sept. 14, 1871	7.47	9.97
Neill, Robert	Feb. 7, 1864	June 27, 1872	6.33	7.71
Neison, John	Nov. 13, 1862	Feb. 9, 1871	7.54	7.75
Nichols, Harry C.	Dec. 16, 1864	Sept. 18, 1871	6.19	8.27
Odenath, Theodore R.	Jan. 3, 1862	Jan. 27, 1870	8.54	8.15
Oliver, George H.	March 4, 1863	June 27, 1872	8.01	9.39
Patterson, George C.	Jan. 5, 1865	June 27, 1872	6.42	7.05
Patton, James	Dec. 23, 1863	June 27, 1872	6.46	7.50
Peddle, William A.	May 6, 1862	Sept. 14, 1871	7.21	9.49
Peiffer, George A.	Jan. 26, 1864	Dec. 30, 1872	7.35	8.01
Porter, William	June 24, 1862	Oct. 13, 1870	7.74	8.76
Preston, Thomas	Dec. 23, 1862	Jan. 4, 1870	6.11	9.46
Price, Joseph H.	June 3, 1865	Dec. 30, 1872	7.82	7.64
Price, Robert J.	Feb. 10, 1864	Dec. 3, 1870	7.31	7.06
Raff, William	June 17, 1863	June 27, 1872	6.98	5.62
Rafferty, William	May 2, 1865	May 6, 1873	9.05	9.78
Ritter, George W.	Nov. 7, 1863	June 27, 1872	7.02	7.66
Roberts, Henry H.	May 9, 1864	June 27, 1872	6.42	8.07
Roller, John	May 7, 1864	Sept. 14, 1871	8.01	9.51
Rowe, George W.	Sept. 27, 1862	Feb. 9, 1871	8.31	9.82
Ruhl, Harry	April 26, 1865	Sept. 14, 1871	7.38	9.12
Ruschman, Frank	July 15, 1863	Dec. 30, 1872	8.91	9.05
Ruth, Frank H.	Feb. 18, 1863	Dec. 30, 1872	5.49	7.74
Saphore, Raymond	Oct. 20, 1861	Oct. 13, 1870		8.99
Scherff, Charles F.	Oct. 20, 1863	Sept. 19, 1873	6.90	7.80
Seldentop, Harry	Feb. 4, 1867	Sept. 26, 1874	8.08	7.40
Shaw, Clarence C.	April 28, 1864	Jan. 24, 1873	7.64	6.52
Sherlock, Edward	June 22, 1862	Jan. 27, 1870	7.92	8.86
Sianette, Thomas G.	March 31, 1864	Dec. 30, 1872	6.12	5.36
Smith, Christopher C.	Oct. 10, 1863	Dec. 3, 1870	7.75	9.41
Smith, Frank B.	Jan. 2, 1862	Sept. 14, 1871		
Smith, James H.	Nov. 5, 1864	Dec. 30, 1872	7.69	7.69
Smith, Walter C.	Nov. 29, 1863	Feb. 9, 1871	7.25	8.89
Siehnchen, George	Sept. 11, 1863	Sept. 14, 1871	7.22	7.29
Sollinger, Harry H.	Sept. 26, 1864	Sept. 26, 1874	7.43	9.31
Steele, Elias A.	Jan. 9, 1866	Dec. 30, 1872	6.92	8.38
Steiner, Charles	March 22, 1863	Oct. 13, 1870	4.57	8.23
Stiles, John	Feb. 18, 1864	Dec. 30, 1872	6.89	9.32
Street, George W.	May 6, 1864	Sept. 14, 1871	7.51	8.71
Strue, William	March 25, 1862	Oct. 12, 1870		

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Sweeney, Frank B.	Aug. 5, 1862	June 27, 1872	8.71	9.28
Taylor, William H.	Jan. 5, 1864	Feb. 9, 1871	5.39	7.84
Thompson, James T.	Aug. 13, 1865	June 27, 1872	6.96	4.97
Thumm, William F.	Dec. 11, 1862	Oct. 13, 1870	6.51	7.10
Tibbets, Randall	Oct. 28, 1862	Sept. 14, 1871	6.35	7.00
Tidd, Harry	Jan. 11, 1863	Oct. 13, 1870	6.60	9.77
Tod, Alva	Oct. 9, 1862	Sept. 14, 1871	8.10	9.46
Tomlinson, James	Jan. 29, 1861	May 24, 1870		8.98
Truax, Gilbert A.	July 6, 1865	June 27, 1872	7.31	7.86
Turner, William F.	Oct. 23, 1863	Feb. 9, 1871	9.19	7.47
Walker, William M.	May 23, 1862	Oct. 13, 1870	6.57	8.04
Walsh, Henry M.	July 22, 1865	Sept. 14, 1871	6.73	6.21
Welsh, Samuel C.	Oct. 12, 1863	Nov. 21, 1870	7.41	8.72
Whiteman, Windle	Dec. 8, 1862	Jan. 4, 1870	7.57	9.43
Whittill, Joseph W.	March 6, 1865	Sept. 26, 1874	4.98	7.43
Williams, Howard L.	Jan. 30, 1865	Sept. 14, 1871	6.61	9.14
Woolman, Howard	March 2, 1862	Feb. 9, 1871	8.58	9.96
Wray, Harry R.	Oct. 3, 1864	June 27, 1872	7.08	8.95
Wunderlich, Otto	Sept. 17, 1862	Oct. 13, 1870	6.63	* 9.84
Yeakel, Warren D.	May 16, 1862	Oct. 13, 1870	7.24	9.92
Zajotti, Attilio	Oct. 8, 1864	Dec. 30, 1872	7.05	7.43
Ziehler, William T.	March 4, 1863	June 27, 1872	5.85	8.14

SECOND SCHOOL.

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Abdill, William	April 21, 1863	Sept. 14, 1871	5.50	6.56
Agin, Walter	June 16, 1868	June 6, 1877	6.58	4.30
Airey, John W.	May 24, 1867	Dec. 30, 1874	7.20	5.55
Alexander, George	Jan. 16, 1865	March 31, 1874	7.16	8.75
Almeda, Antonio	March 14, 1864	June 27, 1872	5.41	6.22
Anderson, Charles A.	March 11, 1869	Dec. 26, 1877	8.42	7.40
Anderson, David C.	Jan. 29, 1868	Dec. 26, 1877	6.25	8.08
Anderson, David J.	Oct. 9, 1866	Dec. 30, 1874	6.30	6.96
Anderson, William J.	March 9, 1869	Jan. 26, 1878	9.09	7.96
Andress, Charles	Oct. 7, 1868	Dec. 26, 1877	4.36	6.10
Andrews, William	Jan. 16, 1866	May 2, 1873	6.52	7.27
Arnold, Albert	Dec. 20, 1868	Sept. 24, 1878	9.42	9.00
Atkinson, Joseph	March 12, 1869	June 13, 1876	7.69	8.11
Barrett, Joseph C.	Sept. 11, 1868	Jan. 22, 1878	7.84	7.32
Basler, George W.	Nov. 20, 1866	Dec. 30, 1875	7.63	7.32
Bayer, Wm.	Dec. 23, 1869	Dec. 26, 1877	9.06	7.63
Bayne, John G.	Nov. 14, 1868	Sept. 17, 1877	8.42	9.33
Beesley, George J.	Jan. 1, 1869	Feb. 4, 1878	5.86	9.33
Bentley, Redmond	Dec. 11, 1867	Dec. 10, 1877	7.92	8.19

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Bergman, Albert	March 6, 1867	June 13, 1876	6.80	7.7
Beucler, Louis	Sept. 17, 1870	Jan. 25, 1878	8.86	8.31
Blind, Joseph A.	Nov. 8, 1870	Feb. 1, 1878	9.14	8.7
Blumenthal, Moses	April 4, 1866	Sept. 19, 1873	6.90	9.1
Borlase, William F.	Sept. 8, 1867	Dec. 30, 1875	6.80	6.51
Boucher, Charles M.	July 16, 1869	Dec. 26, 1877	9.21	9.31
Bowers, John C.	Aug. 30, 1867	May 29, 1874	6.36	8.21
Brandt, Thornton G.	March 23, 1868	Dec. 13, 1877	7.86	8.9
Broadnix, George W.	April 13, 1868	Dec. 26, 1877	6.46	6.7
Broadwell, Edward	Aug. 22, 1867	June 13, 1876	7.75	6.71
Brogan, James	Nov. 3, 1864	Sept. 14, 1871	5.86	7.51
Brownback, Darlington	April 19, 1865	June 27, 1872	5.71	5.1
Burgauer, Myer	March 7, 1870	Dec. 26, 1877	7.48	7.21
Burkhart, George C.	Jan. 17, 1864	May 2, 1873	5.03	4.31
Burnite, George C.	Apr. 18, 1868	Dec. 26, 1877	5.29	6.71
Byrne, Daniel	Sept. 11, 1868	Jan. 17, 1878	9.46	8.3
Byrne, Thomas	Sept. 13, 1867	Dec. 30, 1876	6.50	7.31
Byron, Robert J.	Dec. 16, 1869	Jan. 31, 1878	7.43	7.6
Campbell, John	Oct. 24, 1866	Sept. 19, 1873	8.33	7.9
Carrick, Thomas	Nov. 13, 1865	Sept. 9, 1875	7.89	8.0
Case, Ambrose	Sept. 25, 1869	Dec. 26, 1877	9.25	8.2
Casey, Joseph	Sept. 27, 1869	Dec. 26, 1877	7.66	8.1
Chaigner, Frank	Aug. 10, 1864	May 29, 1874	6.42	7.9
Chandler, Joseph C.	May 27, 1866	Dec. 30, 1875	7.85	8.2
Chidester, William	Jan. 21, 1869	Dec. 26, 1877	8.31	7.41
Cills, Albert G.	Aug. 21, 1866	Mar. 3, 1873	6.65	6.81
Cochrane, Arthur B.	Aug. 26, 1867	Sept. 9, 1875	7.30	6.51
Cogill, Rollin M.	Jan. 3, 1864	Sept. 14, 1871	5.06	8.51
Cole, William J.	Sept. 20, 1868	Jan. 7, 1878	9.29	6.6
Collom, Abraham L.	Aug. 1, 1865	Sept. 14, 1871	6.42	7.0
Conard, Samuel F.	Nov. 14, 1865	Sept. 19, 1873	7.08	7.51
Conner, Thomas A.	Nov. 26, 1866	Sept. 19, 1873	6.50	8.21
Conreye, Harry P.	Oct. 29, 1867	Dec. 30, 1875	6.29	8.0
Cook, Francis W.	Mar. 11, 1867	Dec. 30, 1876	8.39	9.31
Craig, David S.	July 24, 1869	Dec. 26, 1877	7.76	8.41
Craig, Horatio	Feb. 24, 1871	Feb. 26, 1878	6.96	8.81
Crane, William H.	Sept. 28, 1868	Dec. 26, 1877	9.65	9.75
Crans, Edward P.	June 15, 1867	Dec. 30, 1873	7.44	6.61
Crawford, John L.	Feb. 1, 1868	Dec. 30, 1876	7.88	7.21
Crise, Daniel M.	July 2, 1864	Sept. 24, 1873	6.38	7.91
Cudden, Charles W.	Feb. 15, 1866	Dec. 30, 1875	8.54	7.21
Cullen, Charles E.	Oct. 1, 1867	Sept. 26, 1874	8.10	6.41
Cunningham, James A.	Oct. 29, 1867	Sept. 26, 1874	7.24	7.21
Davis, John H.	Jan. 17, 1866	Dec. 30, 1872	7.42	7.75
Davis, Leander	Feb. 4, 1868	Dec. 26, 1877	9.49	8.31
Dawson, Henry W.	Mar. 27, 1869	June 14, 1878	8.49	8.11
Delaney, Alfred W.	Nov. 20, 1868	April 16, 1878	8.19	8.6
Dimmick, Louis	Dec. 22, 1867	Dec. 20, 1877	8.92	8.21
Dinsmore, John J.	Apr. 2, 1870	Dec. 26, 1877	4.93	8.91
Duane, David	June 11, 1868	Dec. 26, 1877	7.36	8.71

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Donnelly, James	Feb. 15, 1868	Dec. 26, 1877	8.39	7.00
Dorff, Albert G.	May 22, 1867	Sept. 9, 1875	7.00	6.21
Dougherty, William J.	July 30, 1867	Sept. 9, 1875	7.86	8.99
Dunlap, Robert B.	Oct. 9, 1869	Dec. 26, 1877	8.08	6.58
Dunlap, Thomas	Nov. 5, 1865	June 27, 1872	7.03	8.89
Dunn, Henry	May 12, 1866	Dec. 30, 1872	8.36	7.83
Dunn, Stephen	May 3, 1865	May 29, 1874	5.55	6.90
Durand, Charles H.	July 25, 1866	Dec. 30, 1872	6.09	4.96
Eckersley, Richard	July 17, 1866	Dec. 30, 1872	6.80	6.86
Ehrenzellar, Charles H.	Mar. 7, 1869	Dec. 30, 1875	6.71	7.51
Eisler, John M.	July 20, 1867	Oct. 7, 1876	6.68	7.35
Erskine, Robert V.	Nov. 27, 1869	Dec. 26, 1877	7.24	4.27
Esling, William K.	Feb. 19, 1868	June 13, 1876	8.41	8.67
Evans, Nathan	Feb. 3, 1868	Jan. 18, 1878	8.74	9.06
Evans, William	Jan. 5, 1869	Dec. 15, 1877	7.80	8.58
Ewing, Samuel	Mar. 31, 1868	Dec. 26, 1877	6.84	6.07
Fairman, William G.	Aug. 29, 1858	June 9, 1877	6.66	8.35
Falby, George W.	Aug. 14, 1865	May 29, 1874	7.07	4.91
Ferguson, Thomas W.	Mar. 6, 1866	Dec. 30, 1873	5.70	7.42
Fink, Wesley	May 15, 1870	Dec. 26, 1877	9.50	8.78
Fisher, George D.	Oct. 26, 1864	Sept. 14, 1871	4.17	7.60
Fitzpatrick, Jos. S.	Feb. 21, 1867	Sept. 19, 1873	7.95	8.52
Flacer, George	May 13, 1867	Mar. 30, 1875	6.59	5.84
Flaville, Alphonso	Aug. 25, 1866	Sept. 9, 1875	7.13	6.28
Fletcher, Archibald	Jan. 13, 1869	Dec. 26, 1877	8.97	8.84
Forrey, William	Mar. 20, 1869	Dec. 26, 1877	8.97	8.35
Forsythe, George B.	Nov. 1, 1864	Dec. 30, 1872	5.90	4.87
Franck, Herman E.	June 22, 1866	June 13, 1876	8.30	9.65
Franks, William	Sept. 18, 1865	Mar. 30, 1875	6.26	8.93
Fraser, William	July 13, 1868	Dec. 26, 1877	7.15	8.77
Fricker, Eastburn E.	May 8, 1867	Sept. 9, 1875	7.77	7.47
Gallagher, George P.	Sept. 6, 1866	March 30, 1875	8.36	6.49
Gardiner, Albert F.	Aug. 31, 1865	March 30, 1875	8.01	8.82
Gates, John S.	Dec. 28, 1868	Dec. 26, 1877	7.88	8.20
Gayde, Edward A.	March 21, 1869	Dec. 26, 1877	7.78	6.58
Gilbert, John	March 24, 1863	March 5, 1878	8.36	9.61
Good, John	March 27, 1869	Dec. 26, 1877	7.72	5.86
Gordon, Thomas H.	Feb. 27, 1871	Dec. 26, 1877	9.34	8.84
Graupe, Lewis L.	July 6, 1867	Dec. 30, 1876	7.63	8.63
Gray, John A.	March 5, 1868	Feb. 1, 1878	7.95	8.53
Gray, Silas	March 22, 1867	Dec. 30, 1876	7.74	7.42
Greene, Jonas	April 8, 1867	Dec. 30, 1874	6.30	5.87
Greer, John D.	Aug. 26, 1867	June 13, 1876	7.96	6.84
Greiner, William	July 20, 1868	Jan. 18, 1878	9.34	9.01
Griesbach, George	Oct. 23, 1865	May 29, 1874	6.02	5.16
Griffiths, John	March 9, 1869	Dec. 26, 1877	9.19	8.93
Groth, John	March 13, 1870	Dec. 30, 1876	7.15	7.31
Grover, Charles	Jan. 24, 1869	Dec. 26, 1877	5.92	5.83
Hagan, Michael	Dec. 7, 1866	Sept. 12, 1873	6.76	4.15
Hagar, William H.	May 12, 1866	Dec. 30, 1874	7.98	6.14

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Hall, Thomas M.	Feb. 5, 1869	Dec. 26, 1877	7.47	8.47
Hamilton, Alfred A.	June 10, 1866	June 10, 1876	7.54	6.60
Hamilton, Harry G.	Dec. 1, 1866	Sept. 19, 1873	5.70	6.19
Harbach, Franklin	April 11, 1868	Jan. 21, 1878	8.23	7.93
Harkins, James E.	Oct. 23, 1865	June 27, 1872	6.32	6.42
Harkness, John	Sept. 21, 1866	Dec. 30, 1872	6.66	9.48
Harvey, Charles E.	Sept. 14, 1868	Sept. 17, 1877	8.83	7.85
Hawkins, Russel	March 18, 1870	Dec. 26, 1877	7.35	5.20
Hegarty, William	Sept. 18, 1869	Dec. 26, 1877	7.60	7.72
Heib, Louis	Aug. 1, 1868	Oct. 7, 1876	8.34	6.87
Hellerman, William R.	Sept. 1, 1868	Jan. 26, 1878	7.97	9.37
Heininger, George I.	Sept. 25, 1866	Sept. 23, 1876	7.60	7.29
Heys, Thomas B.	Nov. 29, 1867	June 6, 1877	8.14	9.80
Hickman, William G.	Dec. 8, 1867	Dec. 30, 1875	6.18	6.80
Hill, Charles	Sept. 21, 1869	Dec. 26, 1877	6.40	7.12
Hill, William J.	Sept. 22, 1871	Dec. 26, 1877	6.64	7.06
Hummelwright, Geo.	Aug. 9, 1868	Dec. 26, 1877	6.60	8.02
Hodge, William J.	Sept. 12, 1868	Sept. 17, 1877	7.25	6.49
Horn, John W.	Dec. 4, 1865	May 29, 1874	8.11	8.07
Hoyer, William G.	Dec. 11, 1868	Dec. 26, 1877	7.49	8.23
Hurst, Alfred	Oct. 6, 1868	Dec. 26, 1877	8.38	9.73
Hutchinson, Joseph H.	Dec. 24, 1868	Dec. 26, 1877	9.23	8.35
Irwin, William J.	Sept. 28, 1866	June 13, 1876	6.00	6.19
Jamison, William	March 20, 1863	Dec. 26, 1877	9.02	9.28
Jeffries John H.	Feb. 13, 1870	April 16, 1878	7.25	8.59
Jeffries, William R.	Aug. 4, 1869	Dec. 26, 1877	8.01	8.08
Johnson, Charles E.	July 27, 1867	March 30, 1875	5.99	6.23
Johnson Jos. C.	Aug. 5, 1867	June 13, 1876	7.65	7.87
Johnson, Jos. H.	Nov. 3, 1864	Sept. 14, 1871	5.81	7.70
Jones, Edwin R.	Jan. 17, 1868	Sept. 26, 1876	7.60	9.34
Jordan, William H.	Feb. 2, 1868	Dec. 26, 1877	6.94	7.42
Junkin, Thomas J.	Dec. 23, 1867	Dec. 22, 1877	8.96	9.15
Kane, Andrew J.	July 6, 1864	Sept. 14, 1871	6.36	6.33
Kane, John G.	Oct. 31, 1868	Oct. 11, 1878	9.48	8.17
Keene, Robert C.	Aug. 22, 1865	Nov. 19, 1873	5.59	4.11
Keichline, George W.	July 13, 1867	June 13, 1876	7.33	8.54
Kelley, Geo. W.	June 28, 1868	Dec. 30, 1876	7.86	3.39
Kelley, Thomas H.	Feb. 14, 1867	Dec. 30, 1875	7.11	7.49
Kelley, Wm. H.	Feb. 19, 1865	Sept. 14, 1871	6.90	6.92
Kidd, William S.	Oct. 19, 1868	Dec. 30, 1875	7.47	7.40
Killen, Ralph	Feb. 9, 1868	Dec. 26, 1877	8.36	7.12
Kingsley, William H.	Feb. 14, 1869	Dec. 26, 1877	9.57	8.17
Kirk, William	Dec. 16, 1866	June 13, 1876	7.04	8.36
Kirkbride, Horace	June 21, 1865	Sept. 26, 1874	7.27	7.21
Klar, Augustus S.	Jan. 9, 1865	Sept. 13, 1874	5.30	5.08
Knorr, Edward T.	Dec. 17, 1867	Dec. 30, 1876	8.22	6.28
Knorr, Harry L.	Dec. 6, 1865	Dec. 30, 1872	6.53	7.51
Knouse, Benjamin	Dec. 14, 1867	Dec. 26, 1877	6.17	6.13
Kopp, William	March 19, 1868	Jan. 18, 1878	7.91	8.92
Kramer, Henry	July 22, 1867	June 6, 1877	8.35	9.32

<i>Names.</i>	<i>Born</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Kreer, George W.	Dec. 18, 1866	Dec. 30, 1873	7.30	5.97
Kuehner, Edward	Sept. 15, 1868	Feb. 1, 1878	9.20	10.00
Lainhoff, Edward	March 9, 1869	Dec. 26, 1877	7.06	6.76
Larkins, Frank E.	May 27, 1866	Dec. 30, 1872	6.75	3.18
Lawrence, Horatio	Jan. 3, 1864	May 2, 1873	6.36	7.97
Layer, Charles H.	Feb. 20, 1863	Sept. 9, 1875	8.45	9.30
Lehman, Charles E.	April 19, 1863	Sept. 17, 1877	7.35	9.12
Lemon, Albert J.	Aug. 20, 1867	Dec. 30, 1875	7.63	9.52
Levis, Washington B.	Jan. 24, 1866	May 29, 1874	7.50	9.22
Lindsay, John A.	Jan. 2, 1869	Feb. 26, 1878	6.83	8.05
Lindsay, John C.	Dec. 2, 1868	June 14, 1878	9.41	8.44
Lockett, John	Aug. 17, 1867	Sept. 9, 1875	7.51	7.11
Luzenberg, Joseph S.	Oct. 11, 1864	June 27, 1872	5.50	2.96
McAllister, John	Sept. 5, 1868	June 6, 1877	8.41	7.38
McCarney, Joseph	Mar. 28, 1866	Sept. 19, 1873	6.96	7.82
McClintock, William	Nov. 15, 1867	Dec. 30, 1875	7.77	7.75
McCuen, Thomas C.	Oct. 27, 1868	Dec. 26, 1877	8.57	7.83
McCusker, William H.	Dec. 11, 1867	June 6, 1877	7.86	9.28
McCutcheon, Joseph	July 4, 1868	Dec. 26, 1877	8.31	8.86
McDonald, Andrew	Nov. 19, 1868	Dec. 26, 1877	9.32	8.44
McFarland, Joseph	March 8, 1866	June 27, 1872	7.41	6.75
McGowan, James	Feb. 9, 1868	Dec. 26, 1877	9.27	8.17
McGuigan, John	May 3, 1868	Dec. 30, 1874	6.68	6.80
McKenna, George	Dec. 15, 1867	Dec. 11, 1877	7.38	7.91
McKnight, John	July 8, 1865	Dec. 30, 1872	6.83	5.53
McMichael, William G.	Nov. 2, 1866	Dec. 30, 1873	6.45	8.58
McMullin, Robert	Feb. 27, 1868	Dec. 26, 1877	8.54	8.44
McMurtrie, Thomas	July 20, 1866	May 2, 1873	5.39	6.80
Mackey, Samuel J.	June 7, 1866	Dec. 30, 1875	7.34	6.73
Mackin, John	July 20, 1868	Dec. 26, 1877	7.61	7.99
Magee, Paul	Dec. 31, 1866	Sept. 19, 1873	6.20	8.67
Mallock, William G.	Nov. 13, 1865	Dec. 30, 1872	7.91	8.03
Malloy, Edward	Dec. 9, 1865	Sept. 9, 1875	5.87	5.44
Mansfield, Charles F.	Nov. 13, 1866	Dec. 30, 1875	6.41	7.96
Marple, George J.	Dec. 2, 1869	Jan. 3, 1878	8.94	8.73
Marr, Emil	Dec. 16, 1868	Jan. 23, 1878	9.27	7.21
Mason, Geo. W.	April 14, 1865	March 30, 1875	6.79	7.20
Matthews, David T.	Feb. 10, 1867	June 13, 1876	7.20	6.67
Mattis, Cecil	April 19, 1863	Dec. 30, 1872	5.70	7.63
Maust, George W.	Aug. 18, 1865	Dec. 30, 1874	8.00	7.69
Mayer, Henry	July 23, 1865	Dec. 30, 1872	6.37	8.33
Mayne, Harry	July 15, 1869	Jan. 30, 1878	6.67	6.37
Meade, John	May 15, 1869	June 14, 1878	8.69	9.16
Menegaux, Lewis	June 14, 1868	Dec. 30, 1876	6.51	8.29
Mergenthaler, Albert	April 26, 1867	Sept. 9, 1875	7.57	7.61
Mergenthaler, John H.	April 18, 1869	Dec. 26, 1877	7.43	8.53
Miller, Edward	Oct. 6, 1863	June 13, 1876	8.68	6.83
Miller, Edward I.	July 5, 1868	Oct. 7, 1876	7.19	7.80
Miller, Lewis	Aug. 11, 1867	Sept. 9, 1875	7.26	6.70
Milligan, Joseph	March 22, 1867	May 2, 1873	6.41	4.24

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Moore, Edward R.	May 13, 1866	May 2, 1873	6.89	7.95
Moore, Robert M.	May 17, 1870	Dec. 26, 1877	7.18	8.44
Moore, Wm.	May 12, 1866	Dec. 30, 1875	6.47	5.98
Moore, Wm. J.	Nov. 30, 1865	Sept. 19, 1873	6.20	4.34
Morgan, William	Feb. 7, 1870	Feb. 6, 1878	8.49	8.12
Morrison, Thomas S.	Aug. 21, 1867	Sept. 26, 1876	7.44	7.56
Moyer, Samuel B.	Jan. 24, 1866	June 9, 1874	7.11	3.96
Muntz, John	May 7, 1866	May 29, 1874	5.40	2.65
Murray, William B.	April 21, 1867	Sept. 9, 1875	7.79	5.31
Newcomb, George C.	Feb. 6, 1867	Sept. 26, 1874	6.77	7.71
Neye, Edward	Sept. 26, 1869	Jan. 25, 1878	9.62	8.21
Nickerson, Edward S.	Oct. 22, 1868	June 6, 1877	7.40	7.14
Nolen, John	June 14, 1869	Oct. 11, 1878	9.54	9.61
Norman, Frank C.	Jan. 12, 1864	Sept. 19, 1873	6.01	5.64
Norton, John E.	Dec. 25, 1868	Jan. 23, 1878	9.18	8.51
Oakes, James B.	Nov. 1, 1868	Dec. 26, 1877	8.72	9.04
Olden, Louis J.	May 23, 1865	Dec. 30, 1872	4.99	7.45
Opdyke, Harry	July 14, 1867	Sept. 9, 1875	7.02	6.61
Orr, Peter A.	May 13, 1867	Sept. 9, 1875	7.33	9.11
Orr, William R.	Mar. 4, 1867	Dec. 30, 1873	6.39	9.81
Palmer, George F.	Oct. 6, 1867	June 6, 1877	9.35	8.71
Pappenheimer, Michael	June 4, 1869	Sept. 9, 1875	8.22	6.81
Parker, Harry S.	May 24, 1868	Dec. 26, 1877	6.85	8.01
Parkinson, Martin H.	May 20, 1868	Oct. 7, 1876	6.89	8.21
Patchill, George	Sept. 15, 1868	Sept. 14, 1878	7.49	6.11
Paul, John	Feb. 2, 1868	Jan. 8, 1878	7.14	6.41
Paulus, Samuel	June 25, 1864	June 27, 1872	6.66	7.41
Pedlow, Henry	Aug. 24, 1868	Dec. 26, 1877	7.95	9.5
Perry, George C.	Apr. 5, 1865	Dec. 30, 1872	5.54	6.8
Phillips, James R.	Mar. 3, 1867	Oct. 20, 1876	8.64	8.81
Pierce, Thomas	Sept. 9, 1869	Sept. 26, 1876	6.60	9.21
Pifer, Andrew J.	Oct. 17, 1867	Dec. 30, 1875	6.68	6.21
Pote, William G.	Feb. 28, 1865	Mar. 30, 1873	6.40	7.11
Preis, Frank	Jan. 26, 1867	Mar. 30, 1875	6.67	7.5
Pyle, Abraham L.	Apr. 12, 1869	Dec. 26, 1877	8.93	7.9
Quigg, Harry	Oct. 27, 1863	Dec. 26, 1877	8.82	8.6
Quicley, Joseph	Sept. 29, 1864	June 27, 1872	7.24	5.2
Radcliffe, Walter S.	Dec. 30, 1868	Sept. 17, 1877	7.01	7.3
Rainey, Henry	Mar. 28, 1868	Nov. 8, 1876	8.97	8.2
Rau, Theodore H.	June 6, 1868	Dec. 26, 1877	8.46	7.4
Reavey, Charles E.	Apr. 26, 1866	June 27, 1872	6.05	4.1
Recknagle, William E.	Dec. 26, 1867	Dec. 26, 1877	7.81	9.4
Rest, Walter M.	Aug. 7, 1868	Dec. 26, 1877	7.42	6.2
Reynolds, William	Apr. 16, 1866	May 29, 1874	6.15	6.3
Richards, Edward F.	June 16, 1867	Sept. 9, 1875	5.75	6.3
Ries, William G.	Nov. 4, 1868	June 26, 1877	6.70	6.2
Riley, Ulysses S.	May 2, 1865	May 2, 1873	8.26	9.2
Rise, George D.	Oct. 7, 1868	Dec. 26, 1877	6.36	6.6
Robbins, Charles	Nov. 5, 1867	June 26, 1877	6.80	6.5
Robbins, William P.	July 26, 1866	Sept. 9, 1875	7.10	6.6

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar-</i>	<i>Con-</i>
			<i>skip.</i>	<i>duct.</i>
Roberts, Robert	Aug. 6, 1865	May 2, 1873	5.63	6.49
Robinson, William S.	Apr. 16, 1864	Sept. 14, 1871	5.58	9.28
Rockett, George M.	Sept. 22, 1868	Jan. 22, 1878	9.30	7.62
Rodgers, Hugh	April 1, 1868	Sept. 9, 1875	6.63	6.51
Rodgers, Thomas	Dec. 1, 1865	Dec. 26, 1877	7.68	8.65
Ross, William	Aug. 16, 1868	Dec. 26, 1877	9.51	7.98
Roth, John	June 12, 1865	May 29, 1874	6.41	6.39
Rubincam, Charles	May 13, 1868	Dec. 30, 1874	6.40	8.67
Rudden, Charles E.	Sept. 25, 1866	June 13, 1876	7.65	7.16
Sanger, Thomas	Nov. 24, 1869	Jan. 19, 1878	9.01	9.27
Santisteban, George S.	July 10, 1868	Jan. 31, 1878	8.34	8.63
Savage, Robert U.	May 20, 1868	Dec. 26, 1877	9.25	8.08
Scanlan, George	July 26, 1863	June 6, 1877	7.49	8.03
Scott, John J.	March 28, 1869	Dec. 26, 1877	7.14	4.45
Scott, Thomas	July 21, 1861	Jan. 4, 1870	5.05	9.00
Shambough, Walter F.	May 25, 1866	Dec. 30, 1873	6.60	6.51
Sharp, David	Dec. 12, 1867	Dec. 11, 1877	8.77	9.01
Sherry, Samuel D.	June 1, 1868	Feb. 19, 1878	5.61	4.36
Shuster, William	April 29, 1866	Dec. 30, 1872	5.98	8.93
Sibley, William	March 27, 1869	Dec. 26, 1877	7.73	6.10
Sidebotham, George	March 17, 1867	March 30, 1875	6.91	6.41
Simmons, Wm. Ellery	Dec. 10, 1863	Dec. 26, 1877	8.95	7.54
Simpler, Claudius A.	Nov. 27, 1869	Dec. 26, 1877	8.16	8.89
Smith, Charles	Nov. 24, 1863	Sept. 17, 1877	9.31	8.04
Smith, George	June 26, 1867	June 13, 1876	7.82	8.08
Smith, Harry W.	Oct. 13, 1869	Jan. 22, 1878	9.49	9.06
Smith, John	Nov. 9, 1866	May 2, 1873	7.69	7.69
Smith, Lewis T.	June 26, 1867	June 13, 1876	8.45	7.75
Smith, Thomas	Aug. 10, 1868	Sept. 17, 1877	8.64	9.12
Smith, Wm. H.	May 4, 1866	Dec. 30, 1875	6.78	7.56
Snook, Edward	Oct. 6, 1869	Dec. 26, 1877	7.94	7.93
Snyder, Bertram	Nov. 28, 1863	June 27, 1872	6.44	8.04
Snyder, Thomas H.	July 25, 1868	June 28, 1877	8.67	8.50
Stephenson, Edward	Feb. 8, 1868	Dec. 26, 1877	9.68	9.17
Surk, William H.	Sept. 20, 1868	Dec. 26, 1877	8.92	7.75
Stott, David	March 28, 1869	Dec. 26, 1877	6.55	7.21
Strauthower, Jacob M.	Feb. 12, 1869	Sept. 17, 1877	8.03	6.06
Stuart, John R.	Jan. 26, 1867	Dec. 30, 1875	8.32	7.49
Summers, William	May 21, 1864	Sept. 14, 1871	4.71	7.31
Sutton, John J.	June 19, 1868	Feb. 6, 1878	8.63	8.83
Sweeney, George W.	Aug. 1, 1865	June 27, 1872	7.04	7.85
Tatu, Henry F.	Aug. 13, 1865	Dec. 30, 1873	5.84	6.52
Ticknor, Harry	Sept. 19, 1865	Sept. 9, 1875	6.60	6.75
Tierney, Joseph	Dec. 16, 1867	Dec. 15, 1877	8.98	8.16
Tompkins, William	Feb. 20, 1867	Sept. 17, 1876	6.46	8.69
Torpey, Dominic	Feb. 19, 1870	June 13, 1876	8.11	4.48
Triol, Manuel A.	June 30, 1868	June 13, 1876	7.61	6.24
Tweedell, Alexander	March 6, 1868	Sept. 9, 1875	5.78	7.39
Upjohn, Charles	Aug. 9, 1866	March 30, 1875	7.28	6.18
Vandever, Tullius	May 15, 1866	Sept. 9, 1875	8.35	7.08

<i>Names.</i>	<i>Born</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Van Horn, Francis	July 17, 1868	Dec. 26, 1877	7.79	6.94
Van Horn, Thomas	Jan. 4, 1869	Dec. 26, 1877	8.78	8.84
Viehman, George	Feb. 9, 1868	Dec. 26, 1877	7.37	8.71
Wager, Harry M.	July 7, 1868	Feb. 4, 1878	9.10	9.64
Walker, George H.	Nov. 17, 1867	Dec. 30, 1876	8.85	8.65
Wallace, Thomas	May 26, 1866	Dec. 30, 1875	6.66	5.74
Ware, Lewis L.	Dec. 16, 1866	Sept. 17, 1876	7.20	7.86
Warner, Howard.	April 27, 1867	Jan. 20, 1876	7.10	8.16
Watson, William C.	Oct. 12, 1866	Oct. 7, 1876	8.30	8.74
Wayne, David	June 8, 1868	Dec. 26, 1877	6.45	6.38
Weisman, Charles	Nov. 9, 1866	June 13, 1877	5.50	7.72
Wells, William N.	Feb. 15, 1868	Jan. 23, 1878	7.39	6.14
Welsh, Benjamin F.	July 24, 1869	Jan. 19, 1878	8.88	9.32
White, Francis	Nov. 8, 1866	June 13, 1877	6.79	7.33
White, Robert	Jan. 2, 1868	Dec. 26, 1877	9.66	10.00
Wike, Milton	June 6, 1870	Dec. 26, 1877	7.38	9.04
Wilhelm, Gustavus	March 29, 1867	Dec. 30, 1875	7.12	9.04
Wilkes, Samuel	July 7, 1865	June 27, 1872	6.70	6.17
Williams, Frank M.	July 14, 1866	June 13, 1876	5.91	6.74
Williams, John	June 12, 1864	Dec. 30, 1872	6.19	8.12
Willis, Harry M.	Jan. 14, 1870	Dec. 26, 1877	6.55	5.56
Wilson, James	Jan. 17, 1867	March 30, 1875	7.53	7.60
Wilson, John	Aug. 10, 1868	June 6, 1877	7.05	7.02
Wilson, William	July 19, 1868	June 6, 1877	8.50	7.22
Winters, John	Sept. 14, 1865	Dec. 30, 1872	6.41	5.23
Worsely, George	Sept. 13, 1869	Dec. 26, 1877	7.03	4.33
Wright, Jefferson D.	July 31, 1866	Sept. 19, 1873	8.09	7.72
Wright, John D.	Oct. 30, 1868	Apr. 16, 1878	6.99	8.33
Wyand, John	June 2, 1868	Sept. 26, 1876	6.57	8.04
Yeager, Walter	Juiy 23, 1867	June 13, 1876	7.42	7.84
Yeamens, Joseph	June 25, 1865	Dec. 30, 1872	5.66	4.85
Young, Robert	May 23, 1868	June 6, 1877	7.98	7.62
Young, William B.	Aug. 27, 1868	Dec. 26, 1877	7.70	8.14
Zessinger, Frank O.	Sept. 8, 1866	Sept. 9, 1875	6.99	5.26
Zimmerman, William	Sept. 7, 1864	Oct. 13, 1870	5.46	6.97

PRIMARY SCHOOLS.

SCHOOL 71.

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Allcutt, Joseph B.	Jan. 15, 1869	Dec. 26, 1877	5.75	5.68
Anderson, Henry E.	Dec. 18, 1870	" "	8.70	8.50
Andrews, Joseph	Oct. 26, 1868	" "	8.95	9.20
Boland, James	Sept. 11, 1869	" "	7.01	6.30

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Brown, Harold F.	Dec. 19, 1869	Jan. 22, 1878	7.05	8.36
Chadwick, Wm. P.	Aug. 9, 1870	Jan. 7, 1878	8.84	8.80
Crompton, Henry E.	Nov. 19, 1870	Dec. 26, 1877	9.22	8.40
Davidson, James R.	Aug. 31, 1871	" "	7.91	7.13
Davis, John	Sept. 5, 1869	Dec. 31, 1878		
Dobbins, Wm. A.	Sept. 1, 1870	Dec. 26, 1877	8.57	7.67
Dumm, Frank E.	April 12, 1870	" "	8.68	9.81
Engle, Wilmer D.	Aug. 26, 1869	" "	8.65	8.78
Eppley, Albert	Nov. 27, 1869	" "	8.05	8.33
Ford, Edward M.	Nov. 24, 1870	" "	6.93	8.72
Fritz, Francis	April 6, 1869	Jan. 8, 1878	7.63	7.02
Gearon, Richard D.	May 5, 1868	Dec. 26, 1877	7.76	5.14
Graul, Abe B.	Feb. 27, 1870	" "	8.23	6.84
Heisler, Samuel H.	June 7, 1868	" "	7.05	7.32
Horstman, Wm. H.	June 4, 1870	" "	8.67	8.93
Kehrweider, Leo G.	Sept. 26, 1869	" "	7.96	7.24
Keser, Wm. F.	Dec. 10, 1869	" "	7.96	6.35
Kreckman, Frederick L.	Feb. 4, 1870	" "	8.11	9.17
King, William F.	Aug. 27, 1878	" "	7.85	7.64
McCadden, Edmund A.	Sept. 26, 1870	" "	7.57	8.93
M'Hugh, George D.	May 31, 1869	" "	8.11	8.15
M'Ilvain, Jno. L.	Dec. 12, 1868	" "	7.75	9.11
Mitchell, William J.	June 7, 1869	" "	7.45	5.17
Murphy, Frederick K.	June 28, 1871	Jan. 31, 1878	9.82	7.85
Newman, George W.	July 25, 1869	Dec. 26, 1877	4.68	6.94
Paul, David M.	July 28, 1868	Dec. 26, 1877	7.88	8.16
Price, John	Dec. 28, 1868	Jan. 17, 1878	7.74	7.02
Punch, William	July 19, 1868	Dec. 26, 1877	9.67	8.87
Roberts, William M.	Aug. 31, 1870	" "	9.02	8.17
Saylor, Chas. W.	July 12, 1868	" "	8.27	8.73
Schnitzer, Joseph	March 17, 1868	Jan. 30, 1878	7.80	7.16
Sturtevant, Henry C.	July 27, 1870	Dec. 26, 1877	7.05	8.17
Truesdell, Arthur A.	April 20, 1870	Jan. 22, 1878	9.15	8.53
Vogel, Simon B.	Dec. 7, 1869	Dec. 26, 1877	5.93	7.98
Work, Ashton A.	Oct. 16, 1870	" "	8.62	8.71
Young, Maurice G.	Dec. 24, 1869	" "	7.51	8.76

SCHOOL 7².

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Agnew, Henry B.	Jan. 20, 1869	Dec. 26, 1877	6.08	8.64
Aydelott, William L.	Aug. 20, 1870	" "	6.85	7.48
Barr, John,	Sept. 21, 1869	April 16, 1878	8.92	7.84
Bowles, William S.	Sept. 23, 1869	Dec. 26, 1877	7.17	9.04
Brandt, Benjamin F.	March 19, 1868	Dec. 22, 1877	8.39	7.91
Brown, Joseph	April 27, 1870	Dec. 26, 1877	6.88	9.16
Bryan, Frank	Jan. 29, 1869	Jan. 18, 1878	6.80	9.19
Cashlin, John N.	Dec. 15, 1869	Sept. 17, 1877	8.78	8.93

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholarship.</i>	<i>Conduct.</i>
Cole, Julius P.	July 25, 1868	June 6, 1877	8.58	6.64
Craig, William E.	Nov. 5, 1870	Dec. 13, 1877	8.92	7.94
Davis, Edward	Oct. 11, 1868	Jan. 17, 1878	7.40	8.60
Davis, John	Sept. 5, 1868	Dec. 31, 1878	-	-
Deweese, Asaph F.	Sept. 3, 1868	Dec. 26, 1877	7.21	7.60
Dreux, Alexander H.	Dec. 18, 1870	Dec. 13, 1877	9.26	7.17
Dubree, George W.	April 16, 1870	Jan. 30, 1878	5.57	8.20
Eldridge, Augustus R.	Nov. 2, 1867	May 19, 1874	9.32	7.26
Famous, Hiram A.	Dec. 6, 1869	Dec. 26, 1877	7.37	8.80
Fields, Jeremiah	Aug. 23, 1868	" "	7.67	8.56
Fricker, Eastburn E.	May 8, 1867	Sept. 9, 1875	9.41	7.98
Hamilton, William	May 9, 1870	Sept. 26, 1876	8.37	6.83
Heineman, William	July 8, 1870	Jan. 5, 1878	6.12	7.61
Hennig, Anton	Feb. 17, 1869	Dec. 26, 1877	6.45	8.60
Howe, William	Nov. 17, 1871	Dec. 26, 1877	4.35	6.84
Jenkins, Daniel	Sept. 7, 1870	Jan. 7, 1878	7.74	7.65
Jones, Albert H.	Dec. 15, 1869	Dec. 13, 1877	8.74	8.24
Kehrweider, Wm. D.	Oct. 1, 1868	Dec. 26, 1877	7.75	7.56
Mathers, Wm.	Nov. 20, 1869	Jan. 28, 1878	5.15	9.14
M'Kee, Francis M.	Dec. 31, 1865	Sept. 9, 1875	8.49	5.28
Parke, Sam'l. W.	May 19, 1871	Dec. 26, 1877	9.17	6.91
Phillips, Henry H.	Sept. 12, 1869	Sept. 26, 1876	9.32	8.23
Koch, Frederick	Feb. 10, 1869	Dec. 26, 1877	5.64	7.83
Rodenbaugh, Walter S.	Dec. 23, 1867	Dec. 22, 1877	9.78	9.13
Ross, Edward	Dec. 21, 1868	Jan. 25, 1878	6.11	8.27
Schiebel, William H.	Oct. 20, 1868	June 14, 1878	9.16	7.58
Steel, Samuel	Oct. 23, 1870	Apr. 2, 1878	9.00	7.82
Taylor, William J.	Oct. 22, 1869	Apr. 2, 1878	8.91	7.17
Tempest, George S.	Mar. 23, 1869	Jan. 17, 1878	6.15	8.62
Thompson, Henry	Jan. 10, 1869	Jan. 31, 1878	4.95	8.92
Wille, Herman	Sept. 7, 1869	Dec. 26, 1877	7.24	8.42
Wunderlich, George	Jan. 22, 1869	June 16, 1877	9.35	7.34

SCHOOL 7th.

<i>Names.</i>	<i>Born</i>	<i>Admitted.</i>	<i>Scholarship.</i>	<i>Conduct.</i>
Anderson, Benj. F.	Feb. 2, 1870	Dec. 31, 1878	-	-
Bothof, Frank W.	Oct. 22, 1868	June 6, 1877	8.11	-
Brown, Robert G.	Sept. 24, 1867	June 20, 1877	7.12	-
Bruder, Albert F.	Sept. 2, 1870	Dec. 26, 1877	6.32	-
Carlin, Thomas	Feb. 25, 1866	Dec. 30, 1874	7.47	-
Boyle, Timothy	Dec. 29, 1870	Dec. 31, 1878	-	-
Forshey, Forrest B.	Oct. 29, 1868	Dec. 13, 1877	8.47	-
Foster, James H.	Mar. 31, 1870	Dec. 26, 1877	6.23	-
Griffith, Nathan M.	July 20, 1870	Apr. 16, 1878	7.45	-
Hahn, Charles	Oct. 25, 1870	Dec. 23, 1878	7.60	-

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Harley, Frank A.	Sept. 10, 1867	Dec. 30, 1876	6 52	
Howe, Geo. W.	Feb. 24, 1870	June 13, 1876	5.84	
Hummel, Samuel,	Sept. 22, 1869	April 30, 1878	7.82	
Hurlock, Wm. J.	Feb. 16, 1869	April 2, 1878	8.24	
Kass, Charles J.	July 6, 1870	Jan. 23, 1878	8.32	
Keenan, William O.	May 24, 1871	Sept. 17, 1877	7.92	
Kelly, Frank J.	Oct. 1, 1872	Dec. 31, 1878		
Kyle, William	Oct. 17, 1870	Dec. 26, 1877	9.26	
Layer, Charles	Oct. 10, 1869	Dec. 31, 1878		
McCutcheon, Claudius E.	July 25, 1870	Dec. 26, 1877	8.23	
Pusswater, John	Oct. 1, 1870	Dec. 26, 1877	7.23	
Peoples, John J.	Oct. 26, 1868	Sept. 17, 1877	8.15	
Poole, John R.	Mar. 21, 1869	Sept. 17, 1877	8.02	
Rodgers, John	Sept. 30, 1870	Dec. 31, 1878	6.98	
Rodgers, Thomas	Dec. 1, 1868	Dec. 26, 1877	7.84	
Rose, George	July 19, 1868	Dec. 30, 1877	6.74	
Rowan, Edward	July 11, 1870	Dec. 26, 1877	8.46	
Sedgwick, Alaric C.	July 23, 1870	June 6, 1877	7.17	
Seidel, Joseph D.	Dec. 1, 1870	Jan. 21, 1878	9.43	
Souther, Thomas R.	Oct. 20, 1868	Dec. 13, 1877	7.33	
Sprogel, Oscar M.	Dec. 29, 1869	Jan. 22, 1878	7.04	
Stiegler, Joseph	Jan. 30, 1870	Jan. 2, 1878	8.26	
Strenker, David U.	May 5, 1871	Jan. 8, 1878	8.84	
Thodny, William J.	Aug. 20, 1869	Dec. 26, 1877	8.98	
Walborn, Rufus	Aug. 31, 1868	Sept. 17, 1877	7.01	
Williamson, William J.	Feb. 1, 1871	Sept. 17, 1877	6.83	
Wilson, Samuel A.	May 9, 1870	April 16, 1878	8.97	
Wilson, William F.	Sept. 20, 1870	Dec. 26, 1877	7.48	
Wuerkes, Christian R.	April 17, 1870	Sept. 26, 1876	7.34	

SCHOOL 7⁴.

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Birney, William	Jan. 22, 1870	Dec. 26, 1877		7.84
Blind, Alphonso	Mar. 14, 1871	Dec. 31, 1878		
Brogan, Phillip	April 5, 1870	Dec. 26, 1877	7.60	
Cour, Joseph D.	Nov. 29, 1870	" "		8.20
Cox, Louis	Sept. 19, 1871	" "		4.31
Dauphin, Ben. F.	Aug. 31, 1871	Dec. 26, 1877	5.67	8.36
Devinney, Lawrence	Jan. 27, 1871	" "	7.13	9.00
Downing, Robert M.	Dec. 17, 1870	Jan. 25, 1878	6.75	9.36
Elder, Alexander	Feb. 8, 1869	Dec. 31, 1878		
Elder, William	Jan. 15, 1870	Feb. 1, 1868	6.35	6.34
Ellis, Harry	Aug. 13, 1871	Dec. 31, 1878		
Eshelman, Edwin	April 7, 1870	" "		
Fitzpatrick, Lucius	Sept. 9, 1871	Jan. 22, 1878	7.19	8.08

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Guthrie, Howard	July 23, 1871	Dec. 26, 1877	5.36	6.98
Harris, William	July 9, 1870	Dec. 31, 1878		
Harrison, Harry M.	Aug. 26, 1871	" "		
Hill, William	March 7, 1869	Feb. 1, 1878	6.95	7.62
Howe, Calvin	Sept. 15, 1870	Jan. 24, 1878	5.52	7.93
Jones, Harry	June 22, 1869	Jan. 30, 1878	7.69	7.83
Lafferty, Henry B.	Nov. 10, 1871	Jan. 23, 1878	7.21	8.16
Lewis, Thomas H.	Jan. 26, 1871	Dec. 26, 1877	5.04	7.92
M'Brade, Henry	Dec. 11, 1870	" "	5.92	6.08
Meek, Thomas	Feb. 21, 1870	" "	7.79	4.46
Meyer, Eugene M.	Aug. 17, 1870	Jan. 25, 1878	4.31	7.01
Meyers, George G.	Dec. 19, 1871	Jan. 18, 1878	7.91	8.35
Minster, Morris C.	June 21, 1871	Dec. 31, 1878		
Nelson, Philip	Jan. 17, 1871	Jan. 17, 1878	7.36	6.84
Price, Harry J.	March 10, 1872	March 2, 1878	6.97	6.83
Schmidt, George	Dec. 9, 1869	Dec. 31, 1878		
Strohm, Herman	April 21, 1870	Dec. 26, 1877	6.73	6.84
Tanner, Otto	Dec. 23, 1871	Jan. 18, 1878	7.67	9.18
Thompson, Samuel	March 5, 1871	Dec. 31, 1878		
Tryon, Edward K.	March 7, 1871	Dec. 26, 1877	4.79	8.98
Walton, James	Jan. 25, 1869	Jan. 2, 1878	7.12	7.55
Walton, Willie	Feb. 26, 1870	Dec. 26, 1877	7.51	7.83
Widmer, Charles B.	Nov. 26, 1870	" "	6.36	7.64

SCHOOL 7⁴.

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Adams, Charles J.	Mar. 5, 1869	Dec. 26, 1877	8.30	8.95
Archer, John M.	Mar. 12, 1871	Jan. 18, 1878	9.43	9.52
Bannan, Laurence	Mar. 18, 1868	Jan. 24, 1878	9.47	9.16
Bartholomew, Geo. W.	Aug. 13, 1871	Dec. 26, 1877	8.00	8.06
Bevan, William H.	July 26, 1869	" "	8.89	8.80
Bartiman, Elmer E.	Apr. 17, 1869	" "	8.13	8.08
Brennan, Thomas F.	Oct. 25, 1868	Sept. 24, 1878	7.95	8.35
Chatham, Henry M.	Dec. 25, 1868	Feb. 4, 1878	9.24	8.20
Cook, Charles N.	Dec. 21, 1868	Dec. 26, 1877	8.47	6.23
Cunningham, James	Nov. 11, 1868	" "	8.49	8.30
Ebener, Charles J.	July 14, 1869	Jan. 19, 1878	8.00	8.98
Eckenrode, Wm. D.	June 13, 1868	Feb. 4, 1878	9.33	8.77
Fenstermacher, Jas. M.	Jan. 8, 1869	Jan. 21, 1878	8.90	9.64
Fink, Daniel	Mar. 15, 1868	Dec. 26, 1877	7.73	8.73
Fisher, Edgar	Mar. 15, 1868	Jan. 21, 1878	9.50	8.34
Fox, George E.	Feb. 20, 1869	Dec. 26, 1877	8.15	9.00
Gilchrist, John A.	June 4, 1868	" "	8.17	6.84
Gow, George A.	Aug. 21, 1869	" "	6.53	9.00
Graber, John	Feb. 14, 1871	" "	8.72	5.23
Hay, Harvey	Feb. 17, 1870	" "	9.63	7.96
Heathcote, Edward L.	Dec. 7, 1863	" "	7.45	6.03

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Heys, Edward M.	Aug. 13, 1870	Dec. 31, 1878		
Hibbs, Joseph F.	Dec. 22, 1870	Jan. 21, 1878	8.99	7.95
Higgins, John	Feb. 16, 1869	Dec. 26, 1877	7.62	8.62
Laughlin, Wm. J.	Nov. 3, 1870	" "	8.76	7.21
Maltzberger, Henry	Oct. 20, 1870	Dec. 31, 1878		
O'Bryan, Jas. K.	Mar. 21, 1871	Dec. 26, 1877	9.07	5.23
Orlipp, Abraham L.	July 21, 1870	" "	8.71	9.23
Piper, Harry E.	Apr. 2, 1870	" "	8.21	7.92
Price, Samuel J.	July 19, 1868	Jan. 19, 1878	9.10	9.17
Reichman, Ulysses S.	Nov. 26, 1868	Dec. 26, 1877	8.45	7.37
Rementer, Louis M.	Sept. 4, 1868	" "	8.95	4.84
Roberts, Ralph T.	Oct. 10, 1869	" "	6.12	8.34
Simons, George M.	Feb. 26, 1868	" "	8.91	7.37
Smith, Charles	May 16, 1870	" "	8.68	8.13
Snyder, William M.	Dec. 24, 1868	Dec. 26, 1877	8.18	8.03
Taylor, Charles	Sept. 5, 1868	Feb. 1, 1878	9.30	9.34
Walter, Jacob J.	Jan. 11, 1871	Dec. 26, 1877	9.49	7.34
Wigmore, Harry L.	Sept. 20, 1869	Jan. 19, 1878	8.38	8.23
Williams, George W.	July 10, 1869	Dec. 26, 1877	8.15	8.93

SCHOOL 7^o.

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Boehm, Edward W.	Sept. 7, 1871	Sept. 24, 1878	7.08	7.27
Brough, Albert L.	Aug. 29, 1869	" "	9.62	8.43
Brown, John W.	July 28, 1863	June 14, 1878	9.48	8.37
Carson, James P.	Jan. 16, 1869	Dec. 26, 1877	5.49	7.96
Craft, John W.	June 6, 1871	Feb. 1, 1878	8.46	8.34
Crawford, Harry J.	June 10, 1870	Dec. 26, 1877	8.67	7.03
Dierman, Henry W.	Aug. 1, 1869	Jan. 31, 1878	7.06	7.98
Dietz, Edward C.	Feb. 13, 1870	Dec. 26, 1877	8.67	8.17
Dolan, Frank	Jan. 25, 1870	Jan. 18, 1878	7.99	6.98
Fairbrother, John F.	Oct. 6, 1870	Dec. 26, 1877	7.76	7.34
Heck, John J.	Aug. 9, 1870	" "	8.62	7.32
Grace, Emerson B.	Oct. 6, 1870	Jan. 17, 1878	8.39	6.04
Hagar, Howard	Aug. 11, 1869	Oct. 11, 1878	9.18	9.17
Hall, John J.	April 13, 1869	Dec. 31, 1878		
Harmer, David V.	Oct. 23, 1870	Dec. 26, 1877	8.88	7.26
Hennig, Henry	Nov. 7, 1870	Oct. 11, 1878	8.41	6.83
Heaton, Jonathan	Dec. 17, 1870	Dec. 26, 1877	8.18	8.71
Hainen, Thomas	July 10, 1870	Jan. 29, 1878	8.67	8.84
Hurst, George J.	June 5, 1871	Dec. 25, 1877	6.39	6.03
Jamison, Benj. B.	March 1, 1870	Oct. 24, 1878		
Kelfriter, Frederick	June 28, 1870	Dec. 26, 1877	5.49	7.05
Leedom, Henry	Sept. 28, 1869	" "	7.41	8.33
Marpie, George J.	Dec. 8, 1869	Jan. 3, 1878	9.03	8.74

Names.	Born.	Admitted.	Scholar- ship.	Con- duct.
Marter, Richard F.	Dec. 21, 1868	Jan. 26, 1878	9.02	7.14
Minster, George H.	Dec. 9, 1868	Jan. 24, 1878	7.77	9.27
Munach, Aloysius J.	April 18, 1869	Sept. 24, 1878	9.42	8.43
O'Kane, Ecklin	Oct. 10, 1871	Dec. 26, 1877	8.88	8.91
Pancoast, Harry C.	Sept. 17, 1870	Feb. 7, 1878	9.32	6.83
Parker, George	Sept. 9, 1869	Dec. 26, 1877	8.22	8.23
Parkes, Samuel W.	May 19, 1871	" "	8.81	6.91
Payne, George H.	Sept. 12, 1870	Jan. 17, 1878	8.41	6.82
Pyott, Elmer J.	March 27, 1870	Dec. 26, 1877	8.57	7.28
Reed, John	July 1, 1868	Jan. 22, 1878	8.14	8.77
Saxman, Harry G.	April 1, 1870	Jan. 26, 1878	5.99	8.73
Smith, Howard B.	Aug. 7, 1870	Jan. 21, 1878	8.06	8.17
Smith, John B.	Aug. 21, 1871	Feb. 4, 1878	9.46	8.69
Thompson, Robert H.	Sept. 29, 1868	Dec. 26, 1877	7.59	6.84
Tomlinson, John S.	Sept. 16, 1870	Jan. 26, 1878	8.02	6.55
Tindall, William	Nov. 15, 1863	Feb. 4, 1878	9.86	6.80
Unrath, Frederick	July 29, 1871	Dec. 26, 1877	8.88	8.87

SCHOOL 71.

Names.	Born.	Admitted.	Scholar- ship.	Con- duct.
Andrews, John W.	Jan. 15, 1870	Dec. 26, 1877	8.01	7.32
Brennan, James J.	April 16, 1870	Sept. 24, 1878	9.18	6.73
Blumenthal, Louis	May 1, 1871	Dec. 26, 1877	8.62	8.80
Drain, Charles	Aug. 23, 1870	Sept. 17, 1877	8.22	5.38
Derrickson, William L.	Oct. 10, 1869	Dec. 13, 1877	7.76	9.27
Dodsworth, John H.	Jan. 1, 1871	Dec. 31, 1878		
Fleming, Thomas	May 12, 1871	Jan. 23, 1878	9.06	9.83
Gearon, James D.	July 1, 1870	Dec. 31, 1878		
Guenther, Charles R.	May 18, 1871	Feb. 6, 1878	6.52	7.63
Hall, Charles F.	Nov. 14, 1870	Dec. 31, 1878		
Higgins, John	Feb. 16, 1863	Dec. 26, 1877	7.07	8.62
Holmes, John A.	Oct. 29, 1871	Oct. 2, 1878	8.98	7.86
Jacobs, Conrad S.	July 23, 1870	Dec. 26, 1877	6.18	6.24
Kellog, William B.	May 22, 1871	" "	7.04	6.17
Lieblich, Charles	July 28, 1871	Jan. 23, 1878	8.92	6.83
Longbottom, Robert	Sept. 23, 1873	Dec. 26, 1877	8.44	6.03
Lyons, John	Dec. 2, 1871	Jan. 18, 1878	8.06	7.15
McCarroll, Robert H.	March 8, 1871	Dec. 26, 1877	8.42	8.72
McClain, William J.	Oct. 3, 1871	Sept. 24, 1878	6.64	8.13
McClelland, Charles S.	July 23, 1871	Dec. 22, 1877	8.86	8.26
McCradden, James	Jan. 17, 1870	Oct. 2, 1878	8.14	9.34
McEvers, Walter	Jan. 9, 1870	Dec. 26, 1877	7.86	8.11
McEvers, George W.	Mar. 28, 1871	Dec. 31, 1878		
McEvers, Herman W.	Dec. 16, 1867	Dec. 15, 1877	7.54	7.97
Miller, William J.	May 10, 1871	April 26, 1878	9.18	7.11

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Napier, Charles H.	May 9, 1870	Jan. 30, 1878	4.74	8.17
Noone, George	Jan. 17, 1868	Dec. 26, 1877	8.62	6.94
O'Donnell, Thos. W.	May 13, 1870	June 14, 1878	8.09	8.03
Quinn, William	Nov. 11, 1869	Feb. 12, 1878	6.42	6.83
Richards, Charles	Feb. 25, 1869	Dec. 31, 1878		
Santisteban, Frank	Nov. 18, 1869	Dec. 31, 1878		
Simpson, William H.	July 15, 1870	Dec. 26, 1877	6.84	7.62
Smith, Thomas P.	May 3, 1870	Jan. 3, 1878	5.72	7.83
Storey, George A.	Mar. 28, 1869	Dec. 27, 1877	7.04	7.13
Tillotson, George	Oct. 29, 1869	" "	7.42	7.63
Walker, James W.	Sept. 2, 1870	May 27, 1878	8.68	8.93
Walton, Frank	Jan. 11, 1871	Dec. 26, 1877	7.00	7.83
Whitehouse, Henry B.	Nov. 21, 1872	" "	7.78	7.93
Wright, Andrew	Jan. 24, 1871	July 1, 1878	9.36	6.17
Young, William B.	Aug. 27, 1868	Dec. 26, 1877	8.33	7.75

SCHOOL 7^a

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Alexander, Washington W.	Jan. 7, 1871	Dec. 31, 1878		
Bardsley, William	Sept. 19, 1871	Jan. 23, 1878	4.68	9.16
Bowers, David	Sept. 15, 1871	Jan. 22, 1878	8.38	8.80
Chambers, William	March 21, 1871	April 2, 1878	8.04	8.97
Chatterton, William	March 22, 1871	Dec. 26, 1877	8.16	8.56
Cunningham, James	Nov. 11, 1868	" "	8.62	8.30
Dowdell, Thomas	Sept. 29, 1871	Jan. 17, 1878	8.32	9.00
Ellis, William	Aug. 13, 1871	Dec. 31, 1878		
Fletcher, Archibald	Jan. 13, 1869	Dec. 26, 1877	8.42	8.84
Gilbert, John	March 24, 1868	March 5, 1878	5.47	8.72
Glasgoe, Thomas R.	Feb. 19, 1872	April 2, 1878	5.44	7.48
Hamilton, Alfred N.	Nov. 9, 1872	Dec. 31, 1878		
Hagarty, William	Sept. 18, 1869	Dec. 26, 1877	3.09	6.84
Harrison, Samuel L.	Aug. 26, 1871	Dec. 31, 1878		
Hazard, David	Apr. 14, 1871	June 14, 1878	8.02	9.28
Kearns, Joseph	July 14, 1872	Dec. 31, 1878		
Kelly, Frank J.	Oct. 1, 1872	" "		
Kendig, Washington	May 25, 1872	June 14, 1878	8.08	8.35
Kester, William F.	Aug. 3, 1871	Dec. 26, 1877	3.90	5.34
Lounsberry, Charles	Dec. 16, 1872	Jan. 18, 1878	7.01	8.64
Lugare, George H.	Mar. 17, 1871	Dec. 26, 1877	7.02	6.91
Lanyan, Robert J.	July 28, 1869	Dec. 31, 1878		
Matthews, Robert G.	Dec. 7, 1871	Jan. 26, 1878	6.26	8.93
M'Crudden, John	Oct. 24, 1871	Sept. 24, 1878	8.46	9.34
M'Keown, Thomas P.	Aug. 8, 1870	Dec. 31, 1878		
Miller, Stephen M.	Dec. 23, 1871	Feb. 1, 1878	5.94	7.77
Miller, Henry	Jan. 4, 1872	" "	8.06	6.82

<i>Names.</i>	<i>Born.</i>	<i>Admitted.</i>	<i>Scholar- ship.</i>	<i>Con- duct.</i>
Mulqueen, Richard	Apr. 14, 1873	Sept. 24, 1878	8.28	9.63
Owens, William N.	May 5, 1870	Dec. 26, 1877	5.42	7.24
Quigg, William	Nov. 11, 1869	Feb. 12, 1878	8.76	8.62
Rose, Madison M.	Mar. 12, 1871	June 14, 1878	7.06	7.32
Shannon, Michael	Oct. 26, 1869	" "	8.06	5.13
Stack, Thomas	Dec. 19, 1870	" "	7.06	6.94
Start, Randolph	Oct. 18, 1871	Dec. 26, 1877	6.58	5.04
Van Fleet, Verner	Aug. 27, 1871	Feb. 6, 1878	6.88	7.13
Waters, George A.	Feb. 17, 1871	Dec. 13, 1877	7.18	8.23
Walton, Wm.	Feb. 26, 1870	Dec. 26, 1877	4.05	8.64
Weir, Charles H.	Aug. 21, 1871	Jan. 3, 1878	8.06	5.23
Wilkins, Charles	Feb. 7, 1871	Dec. 26, 1877	8.28	--

APPENDIX F.

COURSE OF STUDY.

GIRARD COLLEGE.

Course of Study for Eight Years.

JANUARY, 1879.

PRIMARY SCHOOL.

Classes 7⁴ & 7⁵.

ALPHABET.—Names and sounds of Letters.

READING.—Primer.

SPELLING.—Phonic and Orthographic.

WRITING.—Letters, Numbers, on slates.

DRAWING.—On slates.

ARITHMETIC.—Numeration; Notation; Addition.

OBJECT LESSONS.—Colors and their shades; Forms, Lines, Surfaces and Solids; Parts, qualities and uses of common objects.

Classes 7³ & 7⁷.

READING.—First Reader—Phonic Chart.

SPELLING.—Primary Speller.

WRITING.—Words and Sentences, on slates.

DRAWING.

ARITHMETIC.—Subtraction, Multiplication, Multiplication Table, Mental Arithmetic commenced.

OBJECT LESSONS.—Inanimate Objects and their qualities.

Classes 7² & 7⁶.

READING.—Second Reader—Phonic Chart.

SPELLING.

WRITING.—On slates, Numbers, Sentences, etc.

DRAWING.

ARITHMETIC.—Short and Long Division ; Division by Factors ; Tables of Weights and Measures ; Roman Numerals ; Mental Arithmetic continued.

GEOGRAPHY.—Outlines of Countries, States, Gulfs, Bays, Coasts ; Courses of Rivers.

OBJECT LESSONS.—Animals, their habits, forms and uses ; Forms of Earth, Oceans, Continents, etc.

Classes 7¹ & 7⁵.

READING.—Third Reader—Phonic Chart.

SPELLING.—Words of three and four syllables.

WRITING.—On slates ; Dictation Lessons.

DRAWING. .

ARITHMETIC.—Simple Numbers reviewed ; Reduction of Compound Numbers, with converse operations ; Tables of Weights and Measures ; Mental Arithmetic continued.

GEOGRAPHY.—Primary Geography completed ; Drawing Outline Maps.

OBJECT LESSONS.—Natural History Objects, both Vegetables and Animals.

—
FIRST INTERMEDIATE CLASS.

[TWO PARALLEL DIVISIONS.]

READING.—Fourth Reader ; Selected Books.

SPELLING.—Words of similar sound but different meaning ; Difficult words of one and more syllables.

WRITING.—With pen on paper ; Dictation Lessons.

ARITHMETIC.—Reduction reviewed ; Addition and Subtraction of Compound Numbers ; Roman Numerals ; Tables of Weights and Measures ; Mental Arithmetic continued.

GEOGRAPHY.—Common School Geography ; Geographical Definitions ; Maps of the Hemispheres ; Outline Maps, etc.

OBJECT LESSONS.—Birds, their forms, habits, etc.

DRAWING.

SECOND SCHOOL.*Classes 2¹ & 2².*

READING.—Selected Books.

SPELLING.—Pronouncing Speller; Oral and by Dictation.

WRITING.—Dictation Lessons; and from copies.

GEOGRAPHY.—North and South America, United States, Mexico, Central America and West Indies.

DRAWING.

ARITHMETIC.—Multiplication; Short and Long Division of Compound Numbers; Tables reviewed; Mental Arithmetic continued.

HISTORY.—United States; Explorations; Settlements; French and Indian War.

Classes 2³ & 2⁴.

READING.—Selected Books.

SPELLING.—Pronouncing Speller; Geographical and Historical words that occur in other lessons; Use of Dictionary; Defining.

WRITING.—Dictation Lessons and from copies; Abbreviations.

GEOGRAPHY.—Europe; Drawing Outline Maps; Terrestrial Globe.

HISTORY.—United States; The American Revolution.

ARITHMETIC.—Compound Numbers reviewed; with Applications and Converse operations; Vulgar Fractions commenced; Mental Arithmetic continued.

DRAWING.

Classes 2⁵ & 2⁶.

READING.—Natural History; Selected Books.

WRITING.—Dictation Lessons, and from copies; Abbreviations.

SPELLING.—Pronouncing Speller; Dictionary, with definings.

GEOGRAPHY.—Asia; Africa; Australia; Drawing Outline Maps; Use of Globe.

ARITHMETIC.—Vulgar Fractions continued; Decimal Fractions; Mental Arithmetic continued.

GRAMMAR.—Commenced.

HISTORY.—United States, completed.

DRAWING.

Classes 2⁷ & 2⁸.

READING.—History of England; Selected Books.

WRITING.—Letters to friends on familiar subjects; Dictation Lessons; Writing from copies.

ETYMOLOGY.—Prefixes and Suffixes.

GEOGRAPHY.—General Review; Drawing Outline Maps; Use of Globes.

HISTORY.—United States reviewed.

ARITHMETIC.—Analysis; Simple Proportion; Square Root.

GRAMMAR.—Parsing Simple Sentences; Practice on the Conjugation of Verbs.

DRAWING.

SECOND INTERMEDIATE CLASS.

READING.—Selected Books.

ETYMOLOGY.—Prefixes, Suffixes and Roots.

WRITING.—From Copies; Dictation Lessons.

GEOGRAPHY.—Physical Geography.

GRAMMAR.—Continued ; Analysis and Parsing.

ARITHMETIC.—Square Root ; Compound Proportion ; Discount ; Per Centage and its applications ; Simple and Compound Interest.

HISTORY.—England.

DRAWING.

THIRD SCHOOL.

DEPARTMENT OF ENGLISH.

Class 3¹.

ORTHOGRAPHY.—Written Exercises ; Spelling of Technical Words ; Attention to marks indicating accent and pronunciation ; the Dictionary.

ETYMOLOGY.—Roots and their Derivatives.

GRAMMAR.—Oral and written exercises in Analysis and Parsing.

HISTORY.—England.

COMPOSITION.—Important general principles and rules for Punctuation ; Letter Writing and Business Communications.

Class 3².

ORTHOGRAPHY.—Dictation Exercises ; Attention to spelling in every exercise.

ETYMOLOGY.—Derivations and combinations of words.

GRAMMAR.—Analysis and Parsing.

HISTORY.—General History commenced.

COMPOSITION.—Historical events and characters.

Class 3³.

GRAMMAR.—Analysis ; Parsing ; Correction of False Syntax.

CONSTITUTION—Of the United States.

HISTORY.—General History, continued.

COMPOSITION.—Reports of passing events.

Class 3⁴.

GRAMMAR.—Correction of False Syntax ; Parsing selected extracts.

CONSTITUTION—of the United States, continued.

HISTORY.—General History, continued.

COMPOSITION.—Abstracts from Reading and other lessons ; Transposition from Poetry to Prose.

Class 3⁵.

RHETORIC.—Commenced.

HISTORY.—General History, continued.

COMPOSITION.—Study of Synonyms ; Descriptions.

Class 3 .

RHETORIC.—Continued.

HISTORY.—Ancient History—Greece and Rome.

ENGLISH LITERATURE.

COMPOSITION.—Biographical and Historical Sketches ; Compositions on Abstract Subjects.

DEPARTMENT OF FRENCH.

Class 3¹.—Pronunciation ; Nouns ; Numerals ; Auxiliary and Regular Verbs.

Class 3².—Adjectives ; Personal Pronouns ; Contraction of Articles and Prepositions ; Multiplication Table ; Five Irregular Verbs ; Translation from French to English.

Class 3³.—Relative Pronouns ; Possessive and Demonstrative Adjectives and Pronouns ; Comparison of Adjectives ; Participles of all Primitive Irregular Verbs ; Translation from French to English—English to French ; Oral Practice.

Class 3⁴.—Comparison of Adverbs ; Conjugation of Irregular Verbs ; Impersonal Verbs ; Translation from English to French—French to English ; Dictation ; Oral Practice.

Class 3⁵.—Irregular Verbs continued ; Use of Subjunctive ; Translation from French to English—English to French ; Dictation ; Oral practice.

Class 3⁶.—Syntax ; Translations continued ; Dictation ; Recitation in French of French History ; Conversation.

DEPARTMENT OF SPANISH.

Class 3².—Sounds of the Alphabet ; Pronunciation of Words ; Reading ; Grammar, to Verbs.

Class 3³.—Reading and Translating ; Written Exercises ; Grammar, Verbs.

Class 3⁴.—Reading and Translating ; Dictation Lessons ; Grammar, Regular and Irregular Verbs ; Questions and Answers in Spanish.

Class 3⁵.—Reading and Translating ; Grammar, continued ; Spanish Conversations.

Class 3⁶.—Reading and Translating ; Grammar ; Parsing and Analysis of Sentences ; Spanish Conversations ; Translating from English to Spanish.

DEPARTMENT OF NATURAL HISTORY.

Class 3¹.—Common things; Sights and Sounds, and what they mean, etc.

Class 3².—NATURAL HISTORY.

ELEMENTS OF PHYSIOLOGY.

Class 3³.—NATURAL HISTORY.

ANATOMY AND PHYSIOLOGY.

Class 3⁴.—NATURAL HISTORY.

PHYSICAL GEOGRAPHY.

Class 3⁵.—COMPARATIVE PHYSIOLOGY.

BOTANY.

Class 3⁶.—GEOLOGY.

PRINCIPLES OF ZOOLOGY.

DEPARTMENT OF GENERAL PHYSICS.

Class 3¹.—CONVERSATIONS on Natural Philosophy.

Class 3².—NATURAL PHILOSOPHY; Definitions; Mechanical Powers; Lectures and Illustrations.

Class 3³.—NATURAL PHILOSOPHY; The Pendulum; Uniform, Accelerated and Retarded Motion; Falling Bodies; Specific Gravity; Lectures.

CHEMISTRY; Recitations and Lectures, with experiments.

Class 3⁴.—CHEMISTRY; Recitations and Lectures.

NATURAL PHILOSOPHY; Hydrostatics, Hydraulics, Pneumatics; Lectures, with illustrations.

Class 3⁵.—CHEMISTRY; Recitations and Lectures, with experiments.

NATURAL PHILOSOPHY; Optics; Heat; Lectures, with illustrations.

ASTRONOMY.

Class 3⁶.—CHEMISTRY; Recitations and Lectures, with experiments..

NATURAL PHILOSOPHY; Electricity and Magnetism; Lectures, with illustrations.

ASTRONOMY.

DEPARTMENT OF MATHEMATICS.

Class 3¹.—Review the whole subject of Arithmetic.

Class 3².—ALGEBRA, through Simple Equations.

Class 3³.—ALGEBRA; Quadratic Equations.

GEOMETRY; Three Books.

Class 3⁴.—GEOMETRY; Mensuration.

Class 3⁵.—TRIGONOMETRY.

Class 3⁶.—SURVEYING; Navigation.

Extra Class.—ANALYTICAL GEOMETRY; Calculus; Civil Engineering, etc.

DEPARTMENT OF GRAPHICS.

Class 3¹.—Writing; Linear Drawing.

Class 3².—Writing; Card Drawing.

Class 3³.—Writing; Drawing from Cards and Objects; Book-keeping.

Class 3⁴.—Drawing from Cards and Objects; Linear Perspective; Book-keeping; Writing.

Class 3⁵.—Plain and Ornamental Writing; Drawing from Cards and Objects; Geometrical Perspective; Mechanical Drawing; Book-keeping.

Class 3⁶.—Drawing from Objects; Geometrical Perspective; Mechanical Drawing; Book-keeping; Plain and Ornamental Writing.

